

FINANCE OPERATIONS RESEARCH

APRIL 27TH, 2025

WELLS FARGO

APEX FRIENDSHIP HIGH SCHOOL

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I. EXECUTIVE SUMMARY

BUSINESS OVERVIEW

Founded in 1852 by Henry Wells and William G. Fargo, Wells Fargo began as a service for miners during the California Gold Rush. Over time, it grew into one of the largest financial institutions in the U.S., offering personal banking, loans, mortgages, investment management, and more. Known for its innovative digital platforms, Wells Fargo makes banking accessible while maintaining a strong commitment to sustainability and community development. The bank is also active in social impact initiatives, contributing to education, health, and economic growth in communities across the nation.

OBJECTIVE OF PROJECT

The goal of Project LYNX is to propose a strategy for integrating AI at Wells Fargo to significantly enhance customer experiences, particularly in areas such as wait times, fee transparency, and the speed of credit approvals. By utilizing personalized AI, the bank can provide faster, more accurate solutions to these common customer challenges, offering tailored experiences that meet individual needs. This approach not only improves operational efficiency but also fosters greater trust and loyalty among customers. With AI-driven solutions, banking can become more transparent, responsive, and adaptive to customer expectations, ultimately driving higher satisfaction, retention, and long-term customer relationships.



Charles W. Scharf
Current CEO of
Wells Fargo

Mission Statement:

"To serve customers at the highest standards"

RESEARCH METHODS



Findings and Conclusion

FINDINGS

- 1.) Customers frequently encounter difficulty locating the appropriate resources and support at Wells Fargo.
- 2.) Customers often face unexpected or unclear fees while managing online transactions or using mobile banking.
- 3.) Many customers experience frustration due to long wait times, whether visiting branches in person or waiting on calls.
- 4.) Wells Fargo's credit approval process is often slow and inefficient, resulting in significant delays for customers.



CONCLUSIONS

- 1.) This lack of clarity in resource allocation leads to a fragmented experience, causing dissatisfaction and longer wait times.
- 2.) These ambiguous fees create a lack of transparency and trust, resulting in frustration and potential financial strain.
- 3.) These extended wait times contribute to a poor customer experience, leading to dissatisfaction and increased pressure.
- 4.) The slow process hinders customer satisfaction, creating frustration and driving customers toward alternatives.

PROPOSED STRATEGIC PLAN



Project Lynx links customers to the right resources, reducing wait times and charges. Using AI, it analyzes data to detect patterns, adapt to changes, and make precise decisions, optimizing service and managing risks efficiently.



Linking Customers to the Right App

Objective: To streamline the customer experience by directing them to the right resources, whether it's a branch manager, employee, or app feature.



Yield Uncertainty on Ghost Charges

Objective: Use AI to prevent surprise fees and empower customers to manage their accounts more effectively, improving transparency around charges.



Narrowing Long Wait Times

Objective: Use AI to minimize customer wait times, both in-branch and through digital channels (e.g., phone, chat, etc.).



Exceed Credit Approval

Objective: Improve Wells Fargo's credit approval process using AI, making faster, more accurate decisions while offering personalized options.

PROPOSED KEY METRICS:

- 1

Customer Surveys:
- 2

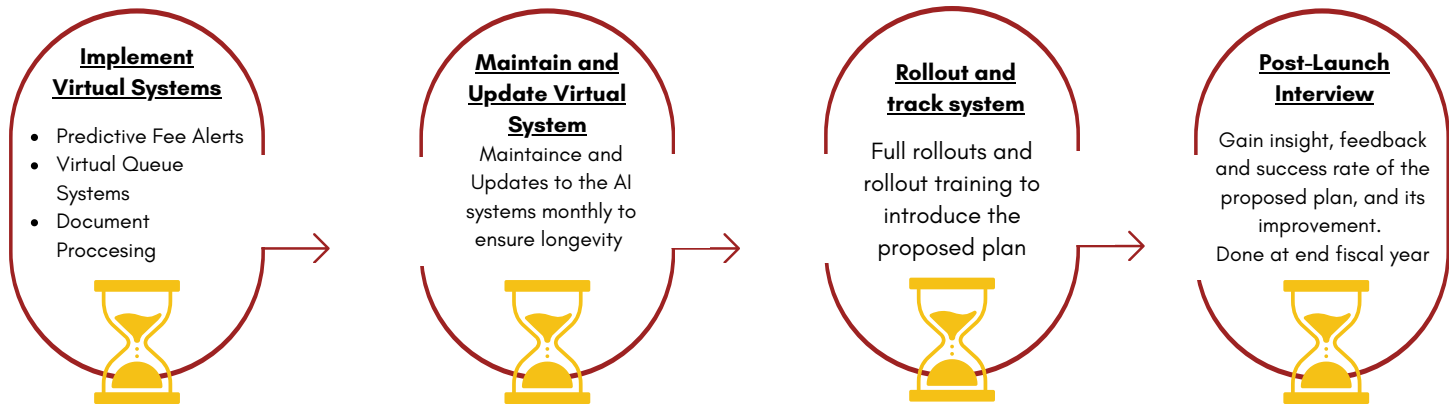
Reduction in Wait Times:
- 3

Fee Dispute Resolution Rate:
- 4

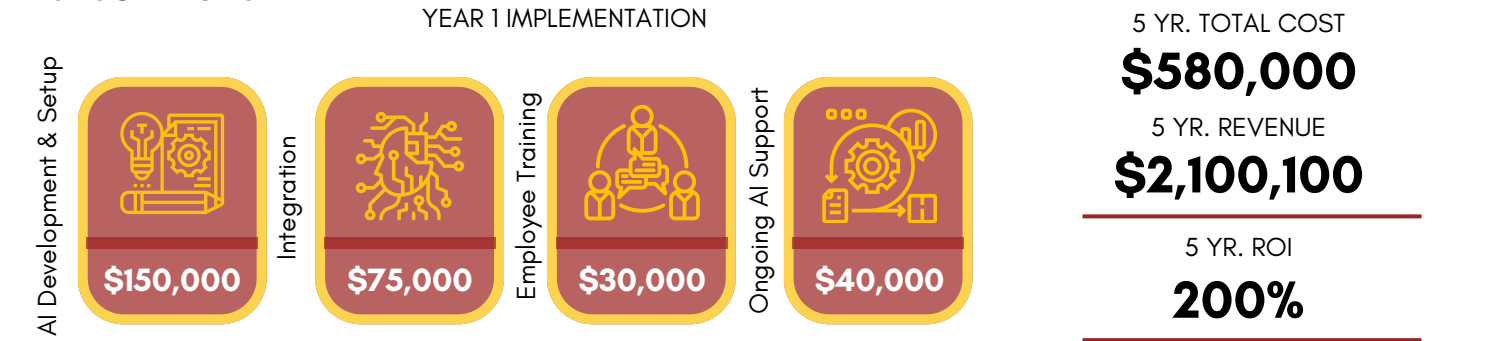
Credit Approval Turnaround Time:

BENCHMARK			
Surveys: 85% positive feedback at the end of each month	Wait Times: 20% Reduction in average wait times	Fee Dispute Resolution Rate: >90%: meet expectation	Credit Approval: < 30-50%

PROPOSED TIMELINE



PROPOSED BUDGET



Cash Flow and ROI (5-Year Projection)					
Year	Annual Expenses	Cumulative Expenses	Annual Revenue	Cummulative Revenue	ROI
Year 1	\$300,000	\$300,000	\$200,000	\$200,000	-33.33%
Year 2	\$70,000	\$370,000	\$350,000	\$550,000	50%
Year 3	\$70,000	\$440,000	\$450,000	\$1,000,000	100%
Year 4	\$70,000	\$510,000	\$500,000	\$1,500,000	150%
Year 5	\$70,000	\$580,000	\$600,000	\$2,100,000	200%

A. DESCRIPTION OF BUSINESS



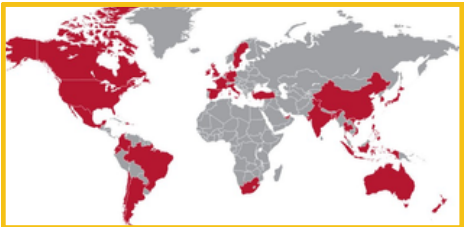
Graphic A: Wells Fargo Bank located in New York City

Wells Fargo was founded in 1852 by Henry Wells and William G. Fargo in San Francisco to serve miners during the California Gold Rush. Originally focused on express delivery and banking services, it rapidly grew into one of the country's leading financial institutions. Today, Wells Fargo offers a wide range of services, including personal banking, loans, mortgages, and investment management, with a vast network of branches and ATMs across the U.S. The bank is known for its innovative digital platforms, making banking more accessible, and its strong commitment to sustainability and community development. Through various social impact and charitable initiatives, Wells Fargo continues to be a key player in both finance and corporate social responsibility.

Provided Services

<p>Personal Banking:</p> <p>Wells Fargo offers a variety of personal banking products, including checking and savings accounts, CDs (certificates of deposit), and personal loans. These services are designed to help individuals manage their day-to-day finances and save for the future.</p>	<p>Credit Cards:</p> <p>The bank offers a range of credit cards with benefits such as cash back, travel rewards, and low interest rates. Wells Fargo credit cards cater to different spending habits, offering both personal and business options.</p>	<p>Business Banking</p> <p>Wells Fargo provides business banking solutions to small and medium-sized businesses, including business checking and savings accounts, credit cards, and lines of credit. The bank also offers merchant services, payroll solutions, and financing options to help businesses grow.</p>
<p>Home Loans and Mortgages:</p> <p>Wells Fargo provides home financing options, including fixed-rate and adjustable-rate mortgages, home equity lines of credit (HELOCs), and refinancing solutions. These services help individuals buy, refinance, or borrow against their homes.</p>	<p>Wealth and Investment Management:</p> <p>Wells Fargo's wealth management services include retirement planning, investment advice, estate planning, and private banking. Their financial advisors work with individuals to develop customized investment strategies based on their financial goals.</p>	<p>Commercial Banking</p> <p>For larger corporations, Wells Fargo offers commercial banking services, such as business loans, treasury management, capital markets, and specialized lending. These services support companies in managing cash flow, financing growth, and minimizing financial risks.</p>

Wells Fargo has grown into one of the biggest financial institutions in the U.S. through a series of strategic mergers and acquisitions, including its high-profile merger with Wachovia in 2008. With a strong presence across the country, the bank operates thousands of branches and ATMs, especially in major cities like New York, San Francisco, and Los Angeles. Wells Fargo also has a solid foothold in global financial markets, with operations in key international cities, solidifying its status as a major player in both domestic and global banking.



Graphic B: Progression over the years

B. DESCRIPTION OF THE TARGET MARKET (DEMOGRAPHICS AND PSYCHOGRAPHICS)

Wells Fargo's target market is broad and varied, reflecting its status as one of the leading financial institutions in the U.S. The bank caters to a wide range of individuals, businesses, and organizations, providing tailored financial services to meet the needs of different customer segments.

Individual Consumers

Wells Fargo serves a wide range of personal banking customers, from those opening their first checking account to individuals seeking comprehensive wealth management services. Their offerings include everything from basic checking and savings accounts to more complex services like home mortgages, auto loans, credit cards, and personal financial planning. They're also deeply invested in providing digital banking solutions, making it easy for customers to manage their finances online or through their mobile app. **Wells Fargo** targets both everyday consumers and high-net-worth individuals looking for personalized financial advice and investment management.

Small and Medium-Sized Businesses (SMBs)

For small and medium-sized businesses, **Wells Fargo** provides a suite of services tailored to help them grow and manage their finances. They offer business checking accounts, lines of credit, loans, and merchant services, which make it easy for SMBs to handle day-to-day operations. In addition, **Wells Fargo** offers specialized financial products like small business credit cards and Paycheck Protection Program (PPP) loans. Their expertise in commercial lending and cash management solutions makes them a key player for businesses looking to scale and navigate financial challenges.

Large Corporations and Institutions

Wells Fargo also serves large corporations, government agencies, and institutional clients with more complex financial needs. These clients often require advanced services such as investment banking, treasury management, and commercial real estate financing. **Wells Fargo's** corporate clients rely on them for services like mergers and acquisitions support, capital markets access, and risk management solutions. The bank also works with municipalities and nonprofit organizations, helping them manage public funds and access financing for large-scale projects, like infrastructure development and community services.

Demographics

Age:

- A diverse age group, including both seasoned professionals and emerging talent.

Income

- **Wells Fargo** serves middle-income to affluent individuals, with offerings for those earning \$30,000 to \$500,000+ annually.



Psychographics

Financial Responsibility:

- Customers tend to prioritize financial stability and long-term security, with many focused on managing debt, saving for major life events.

Tech-Savviness:

- A large portion of **Wells Fargo's** customers prioritize convenience, using digital banking tools like mobile apps



Geography

- **Wells Fargo** operates in urban, suburban, and rural U.S. areas, with a strong presence in global financial hubs

Education

- Caters to both college-educated customers seeking advanced financial services and those with varied educational backgrounds needing accessible solutions.



Growth-Oriented:

- Customers are constantly seeking ways to scale, expand, and optimize their operations.



Trust and Stability:

- Customers value security and reliability, and **Wells Fargo** appeals to those seeking trustworthy, stable banking relationships built on transparency.

C. OVERVIEW OF THE BUSINESS OR ORGANIZATION'S CURRENT ARTIFICIAL INTELLIGENCE STRATEGIES AND USAGE

Wells Fargo, as one of the largest financial institutions in the world, has been leveraging Artificial Intelligence (AI) and machine learning (ML) technologies to enhance its services, improve operational efficiency, and offer better customer experiences. The bank's AI strategies and practices span across multiple areas of its business, including customer service, fraud detection, risk management, and data analytics.

Wells Fargo has developed AI-driven chatbots, such as "Fargo", to provide quick and accurate responses to customer inquiries. These chatbots help with tasks such as answering questions about accounts, processing transactions, and guiding users through the bank's services.

Wells Fargo uses AI algorithms to detect fraudulent activities by analyzing transaction patterns in real-time. AI models can flag unusual behaviors and alert both the customer and the bank, helping to prevent fraud and protect sensitive financial data.

Wells Fargo utilizes AI to provide more personalized financial advice to its customers. By analyzing customer spending patterns, saving habits, and financial goals, AI can offer tailored advice for budgeting, investing, and retirement planning.

AI models are used by **Wells Fargo** to assess the creditworthiness of potential borrowers. These models process large volumes of data, such as transaction histories, credit scores, and other financial information, to predict the likelihood of default and determine appropriate lending terms.

Wells Fargo employs RPA, powered by AI, to automate routine and repetitive tasks such as data entry, document processing, and report generation. This helps improve efficiency and reduces the risk of human error.

Wells Fargo uses AI to analyze vast amounts of data and gain insights that help in making informed business decisions. Machine learning algorithms identify patterns and trends that help shape strategic decisions, optimize business processes, and improve overall performance.

AI has really hit **Wells Fargo** on efficiency, security, and customer satisfaction. Automation of processes such as loan approvals and fraud detection has reduced operational costs by reducing human errors. This streamlined approach enables employees to devote more time to strategic and customer-focused tasks.

Besides, AI-driven risk assessment tools have enhanced the bank's capability to manage credit and market risks, thus enabling better decision-making and more reliability in financial operations. The bank has used AI-driven data insights for personalized financial solutions to increase its relationship with customers and ultimately loyalty.

III. RESEARCH METHODS USED IN STUDY

A. DESCRIPTION AND RATIONALE OF RESEARCH METHODOLOGIES SELECTED TO CONDUCT THE RESEARCH STUDY

When creating our study we analyzed two different research methods; qualitative and quantitative. Qualitative research is used as an experimental form of data that provides non numerical information about the current practices of AI and its capabilities. This allows us to understand how AI is currently implemented at **Wells Fargo** and what practices are used in the field. Quantitative data, on the other hand, is research analyzing numerical data to draw conclusions based on statistics. It provides measurable objectives and insights, allowing us to view trends, the current AI operation and its future at **Wells Fargo** through an analytic lens.

Types of Sources

	Primary Sources	Secondary Sources
Qualitative Data	<ul style="list-style-type: none"> Interview with Wells Fargo Team Official Wells Fargo Reports Customer Testimonials 	<ul style="list-style-type: none"> Industry reports on AI banking Articles on current Wells Fargo AI Case studies and academic research
Quantitative Data	<ul style="list-style-type: none"> AI handled customer interactions at Wells Fargo AI issue resolution time AI accuracy rates 	<ul style="list-style-type: none"> AI usage at other banks Banking efficiency reports Wells Fargo AI industry adoption studies

Primary Research Methods Used:

1. Interview with Sandy Johnson Branch Manager at Aepx Wells Fargo Branch

Our first primary research method involved an in-person interview with Sandy Johnson, the Branch Manager at Wells Fargo's Apex Beaver Creek Branch. This conversation provided us with valuable, first-hand insights into the bank's current AI initiatives and how they're being applied at the local level. We recognized that, to fully understand the bank's approach, it was essential to gather perspectives from both the managerial side and the customer-facing side. By speaking directly with Sandy, we were able to see how the bank's strategies play out on the ground, particularly in relation to their mobile banking app, Fargo, and how it's being integrated into daily operations.

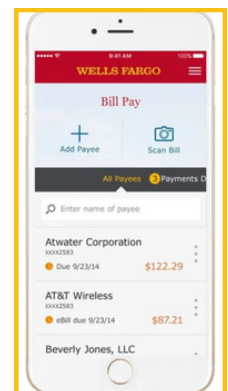
To guide the discussion, we prepared a list of 25 carefully crafted questions. These covered a broad range of topics, including the impact of COVID-19 on banking habits, changes in customer demographics, usage patterns of the mobile app, the dynamics between in-person and online appointments, the bank's approach to fraud detection, phone tracking concerns, and the unique challenges faced by both employees and customers in the banking process.

The interview revealed both strengths and weaknesses in Wells Fargo's approach. We learned where the bank is successfully tackling challenges—like improving customer experience through digital tools—and where there are gaps or struggles, particularly around areas like fraud detection and ensuring a smooth integration of new tech like Fargo.

These insights were pivotal in refining our strategic plan. We recommended that Wells Fargo diversify its AI strategies and increase employee engagement with the new mobile banking features, particularly Fargo. Additionally, the conversation allowed us to assess how Wells Fargo's current practices align with broader industry trends and best practices, providing us with a clearer picture of where they stand and where there's room for improvement.

2. Competitor Interview with Fifth Third Bank Daniel Penn (Financial Center Manager)

Interviewing the Branch Manager at Fifth Third Bank, a direct competitor to Wells Fargo in the same local market, provided us with valuable insights into the AI strategies and challenges faced within the banking industry as a whole. By speaking with professionals at a similar financial institution, we were able to compare the different ways AI is integrated into daily operations—whether at the customer or employee level. Understanding Fifth Third Bank's approach allowed us to identify key differences and similarities in how artificial intelligence is being used, helping us refine and enhance Wells Fargo's own AI practices to ensure it remains competitive in the rapidly evolving tech-driven market.



Graphic C: Fargo App



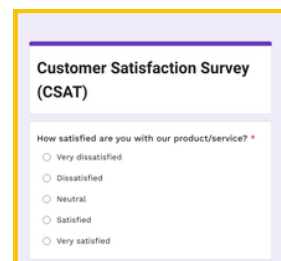
Graphic D: Fifth Third Bank: Apex Location

We used the same set of 25 questions for both interviews to ensure a consistent, unbiased comparison. This approach helped us gain a clear understanding of the AI strategies at Fifth Third Bank, both from a managerial perspective and in terms of customer-facing applications. By observing what works—and what doesn’t—at a competing bank, we were able to broaden our research, not only focusing on Wells Fargo’s practices but also identifying industry trends and best practices. This comparison was essential in shaping our strategic plan for Wells Fargo, as it allowed us to integrate specific AI practices used by Fifth Third Bank that could be beneficial for Wells Fargo. Ultimately, this research provided us with a more comprehensive view of the competitive landscape, enabling us to craft a more effective plan to strengthen Wells Fargo’s AI initiatives and ensure the bank stays at the forefront of technological innovation in the banking sector.

3. Wells Fargo Customer Surveys

To gain direct feedback from Wells Fargo customers, we conducted surveys focused on their experiences with the mobile banking app and AI-driven services. We reached out to potential participants through a combination of LinkedIn outreach and in-branch interactions, asking if they would be interested in completing a brief Google Form survey. The survey, consisting of 10 carefully selected questions, aimed to capture customer experiences with the app, as well as any challenges or inconveniences they encountered related to AI—such as issues with AI-generated phone calls, appointment scheduling, or any other areas where they felt AI could improve their banking experience. By gathering this feedback, we were able to gain valuable insights into the real-world impact of Wells Fargo’s AI technologies from the customer’s perspective.

This customer-driven data helped us identify specific pain points and areas for improvement, ensuring that our strategic recommendations were grounded in actual user experiences. Additionally, it provided us with a clearer understanding of where AI could be better leveraged to enhance customer satisfaction and streamline banking processes. The surveys offered an essential complement to our interviews with branch managers, allowing us to balance managerial insights with the voices of actual Wells Fargo customers, and helping us to develop a more well-rounded and effective AI strategy for the bank.



The image shows a screenshot of a Google Form titled "Customer Satisfaction Survey (CSAT)". Below the title, it asks "How satisfied are you with our product/service?". There are five radio button options: "Very dissatisfied", "Dissatisfied", "Neutral", "Satisfied", and "Very satisfied".

Graphic E: Google Form Survey

4. Focus Group

Building on the feedback from the customer surveys, we organized a focus group with a select group of respondents to dig deeper into their specific experiences. This gave us the opportunity to move beyond general feedback and really focus on the details of individual stories. In the focus group, customers were able to share specific instances where they faced challenges with Wells Fargo’s mobile banking app, AI-driven phone calls, or appointment scheduling—situations that might not have come up in the surveys. The open-ended nature of the discussion allowed participants to describe their personal experiences more vividly. Instead of just pointing out broad problems, they could recall exact moments when something went wrong, like an appointment that was missed due to a glitch in the system or frustration with an AI call that didn’t address their needs.

These detailed stories gave us a much richer understanding of what customers actually go through when interacting with the bank’s technology. As the conversation unfolded, we started to notice common themes and similar experiences being shared among the group. Many customers mentioned facing the same issues, such as confusion with AI-driven appointments or difficulties getting through to the right person via automated phone systems. These recurring stories helped us identify the key pain points that were affecting a wide range of customers. The focus group also encouraged participants to suggest improvements, giving us valuable insights into how they think AI could be better integrated into their banking experience. By focusing on specific instances rather than broad issues, we were able to pinpoint exactly where improvements were needed, helping us build a more targeted and effective strategy for Wells Fargo moving forward.

5. Ethnographic Research of Digital Banking Habits

Ethnographic research involves observing people in their natural environment to understand how they interact with a product or service. For Wells Fargo, we observed nine individuals from our focus group as they used the mobile banking app live and AI-driven tools in their everyday routines. We took note of their behaviors, reactions, and any challenges they faced while interacting with the app—whether they were checking balances, scheduling appointments, or using AI features like fraud alerts. We chose this method because it gave us a deeper, more realistic view of how customers actually use the app in their daily lives. By watching them in action, we were able to spot issues and pain points that might not have come up in surveys or interviews. It also helped us see how customers react to AI features in real-time, and in different settings—whether at home, on the go, or at work. This provided valuable insights into where Wells Fargo’s digital tools are working well and where there’s room for improvement, helping us make more informed recommendations to enhance the user experience and keep the bank competitive.

Secondary Research Methods Used:

1. Online Research/Data

Our secondary research focused on understanding Wells Fargo's approach to AI by reviewing their publicly available reports, including annual proxy filings, press releases, and articles. We wanted to see how the bank is using AI in its operations, what technologies they're prioritizing, and how they compare to others in the industry. The proxy reports gave us valuable insights into Wells Fargo's strategy, showing their commitment to innovation and digital tools, particularly in improving customer service, security, and efficiency. We also looked at other articles and industry analyses to see how Wells Fargo's AI efforts stack up against competitors, helping us identify areas where the bank is leading or might need to catch up. This research helped us refine our recommendations, ensuring they align with Wells Fargo's goals and industry trends.

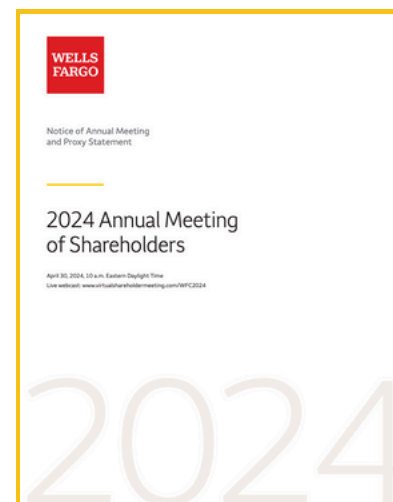
2. Online Customer Complaints

We turned to platforms like Yelp and Reddit to gather genuine feedback from customers about Wells Fargo's digital banking services. These sites provided honest, unfiltered reviews from real users, sharing their experiences, frustrations, and suggestions for improvement. On Yelp, we focused on complaints about the mobile app and online banking, particularly issues like app glitches, login problems, or difficulties with AI features like automated customer service or fraud alerts. We also scoured Reddit threads related to banking and Wells Fargo, where users opened up about recurring issues, such as slow customer support, app functionality problems, and concerns about digital security.

3. How FinTech is Shaping the Future of Banking | Henri Arslanian | TEDxWanChai

We included Henri Arslanian's TEDx talk, "How FinTech is Shaping the Future of Banking," in our secondary research because it offered valuable insights into how emerging technologies, like AI, blockchain, and digital-only banking, are changing the financial industry—issues that are highly relevant to Wells Fargo. Arslanian's focus on AI and automation highlighted opportunities for Wells Fargo to improve its customer experience with more personalized, efficient digital tools.

His point about traditional banks needing to work with fintech startups reinforced the idea that Wells Fargo should not only innovate within its own walls but also look to collaborate with outside partners to stay competitive in the rapidly evolving market. By forming strategic partnerships with fintech companies, Wells Fargo can tap into new technologies, faster innovation cycles, and unique customer-centric solutions that they might not be able to develop in-house. This collaboration could also help Wells Fargo stay ahead of emerging trends, like blockchain or AI-powered financial services, while accelerating their ability to adapt to customer demands and market changes.



Graphic F: 2024 Proxy Report

B. PROCESS USED TO CONDUCT THE SELECTED RESEARCH METHODS

Step #1

Conducting all Supplementary and Secondary Research

1 OCT 2024 ONLINE DATA

- Proxy Reports (2022-2024): Analyzed for Wells Fargo's AI strategy.
- Article: "Wells Fargo Is Banking On An AI-First Strategy": Insights on AI initiatives.
- Interviews & Online Sources: Perspectives on AI implementation.

2 NOV - DEC 2024 CUSTOMER COMPLAINTS

- Yelp: Mobile app glitches, login issues.
- Reddit: AI, slow support, app problems.
- Facebook/Instagram: Digital banking frustrations.
- YouTube: AI tools, security complaints.

3 DEC 2024 SUPPLEMENTARY

- "How FinTech is Shaping the Future of Banking" | Henri Arslanian (TEDx): Insights on AI, blockchain, and digital banking trends.
- NVIDIA CEO TED Talks: Focus on AI and its impact on industries, relevant to Wells Fargo's AI strategy.

Step #2**Interview with Wells Fargo Branch Manager Sandy Johnson and Competitor Interview**

In order to gain insight into Wells Fargo's current AI strategies and practices, we organized an interview with Sandy Johnson, the Branch Manager at the Apex Wells Fargo location, using a set list of questions regarding the processes in her specific division. Comparably, we interviewed the Branch Manager at the Fifth Third Bank in Apex to compare the different approaches to AI integration and identify the impact on their operations. This allowed us to evaluate the strategies employed by competing banks in the area, which we then used to inform and refine our strategic plan.

Some questions asked during the interviews:

- How do you educate your customers on new technology updates that may occur to either the app or the website, etc. ?
- How do you think the new wave of AI banking has affected your customer service? (ie: AI chatbot), for example did you receive any feedback?
- How would you say wells fargo personalizes and prioritizes its customers to make them feel valued?
- How often would you say you use AI in your day to day processes? Ex bank closing(monthly/quarterly)?

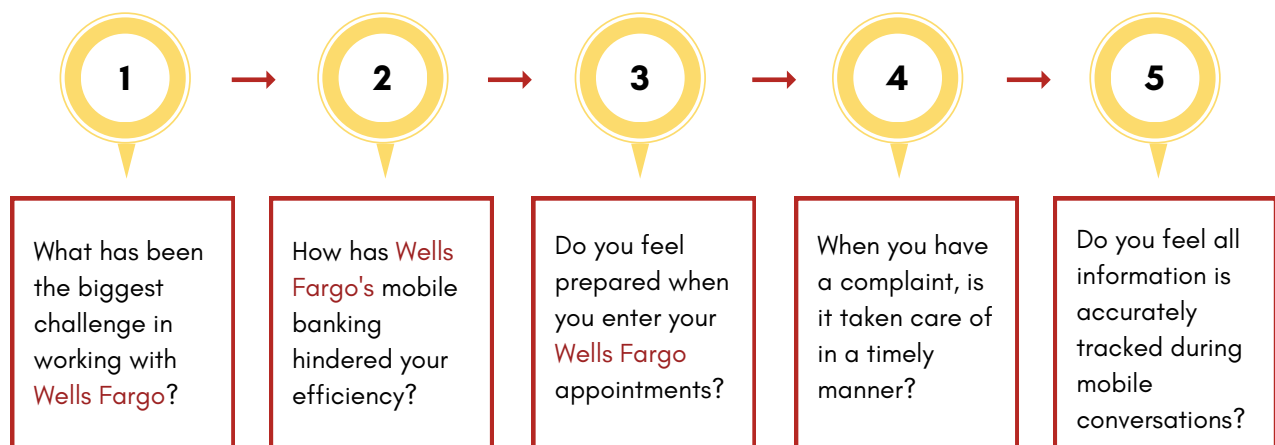
Step #3**Customer Surveys:**

To conduct our customer surveys, we distributed Google Form surveys to both current and former customers of Wells Fargo via LinkedIn to gather valuable feedback on their experiences with the company's services, including its AI-driven features. Their responses provided insights into the customer experience and satisfaction levels of Wells Fargo's use of AI in areas such as online banking, personalized recommendations, and customer support.

This information revealed both the strengths and potential challenges of integrating AI into customer interactions, highlighting areas for improvement and innovation. Surveying both current and former customers was essential to obtaining a comprehensive and unbiased perspective on the effectiveness of Wells Fargo's AI strategies and overall service quality.



Graphic G: Post interview at Apex Wells Fargo

Survey Questions:**Step #4****Focus Group and Ethnocentric Research Tracking**

Out of the 15 customers we surveyed, 11 agreed to join a focus group, and 9 of them also took part in our ethnocentric tracking. This involved closely observing their use of the Wells Fargo mobile app and digital tools to see when and where they encountered issues. We started by discussing their survey responses and overall experiences with Wells Fargo. Then, we asked them to share any problems they faced while using the app or website. Together, we brainstormed possible solutions to those issues. The real-time feedback and group discussion gave us valuable insights, while the ethnocentric tracking helped us see firsthand how customers interact with the app. This approach allowed us to pinpoint key pain points and incorporate practical solutions into our strategic plan.

IV. FINDINGS AND CONCLUSIONS OF THE STUDY

A. FINDINGS OF THE RESEARCH STUDY



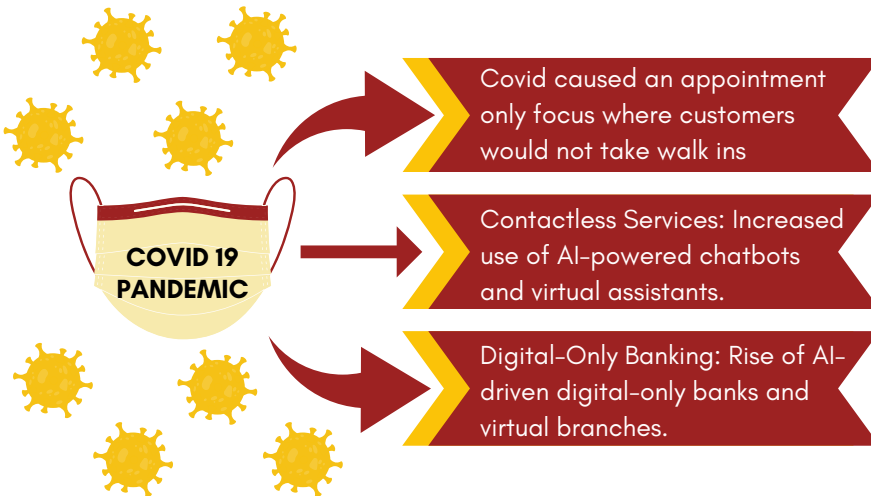
Interview with Branch Manager Sandy Johnson

1. Impact of AI and Technology on Employees

Positive Effects: AI and technology have empowered employees by providing more tools to serve customers effectively. These tools make their jobs easier and improve customer service.

2. Customer Feedback on Technology

Appointments & Wait Times: AI has helped reduce wait times by encouraging customers to make appointments, ensuring they stay on track and avoid long lines. Without appointments, wait times could reach an hour.



3. AI Integration in the Branch

AI Assistance: The "Fargo" feature, a Google-like AI assistant, is particularly useful in directing customers to the right resources. While customers previously struggled to find answers, the AI now helps guide them to the right information quickly.

Usage Frequency: AI is more frequently used in the back-end systems (e.g., fraud detection, customer inquiries) rather than day-to-day branch operations, which remain more manual for accuracy.

4. Educating Customers on New Technology

Customers are kept informed about updates to the app, website, and other digital tools through email notifications and in-app messaging.

5. AI Practices and Competitiveness

Wells Fargo's use of AI, such as the Fargo assistant, helps it stand out from competitors by providing convenient, accessible technology that enhances customer experience.

6. Customer Experience

The majority of Wells Fargo customers are enthusiastic about new updates



Competitor Interview with Fifth Third Bank Financial Center Manager Daniel Penn

1. AI Integration for Customer Service Efficiency

Personalized Virtual Assistants: Fifth Third Bank uses AI-driven virtual assistants for personalized customer service. These assistants not only handle basic inquiries but also offer tailored financial advice based on individual customer profiles, improving the customer experience by providing more relevant support.

2. AI for Financial Product Recommendations

Data-Driven Personalization: Fifth Third utilizes AI to offer highly personalized financial product recommendations to customers. By analyzing transaction data and spending habits, the bank's AI system suggests products like loans, credit cards, or investment options that align with the customer's financial behaviors and goals.

3. AI in Fraud Prevention

Real-Time Fraud Detection: The bank's AI algorithms are integrated into transaction monitoring systems that scan for unusual activity and prevent fraud in real time. The system uses machine learning to adapt and recognize patterns in customer behavior, reducing the risk of fraud without needing manual intervention.

4. AI-Powered Financial Insights and Education

Automated Financial Health Tips: Fifth Third's AI tools provide customers with automated financial insights, helping them better manage their money. These insights include recommendations on budgeting, savings, and investing based on real-time data analysis.

5. AI in Loan and Credit Decisioning

AI in Underwriting: The bank has adopted AI to streamline loan and credit approval processes. AI analyzes an applicant's financial history and current economic conditions, enabling faster and more accurate loan decisions.

6. Focus on AI-Driven Branch Innovation

Branch Automation: Fifth Third is integrating AI into its physical branches through self-service kiosks and AI-driven customer service tools. These tools allow customers to access their account information.



Customer Surveys

Wells Fargo Employee Survey Findings – AI & Digital Banking

The survey was designed to understand how AI and mobile banking impact Wells Fargo employees, focusing on the challenges customers face and how it affects employee efficiency and preparedness.

Key Findings:

Biggest Challenge in Working with Wells Fargo

- 41% of customers noted that the biggest challenge is “online frustration with mobile banking issues,” while 34% mentioned “trouble adapting to new AI tools,” and 25% pointed to “long wait times due to inadequate features.”

Impact of Mobile Banking on Efficiency

- 49% of customers reported that “app glitches and slow performance” severely hindered their efficiency, while 38% stated the app doesn’t affect their work significantly, and 13% felt it occasionally made tasks easier.

Preparedness for Appointments

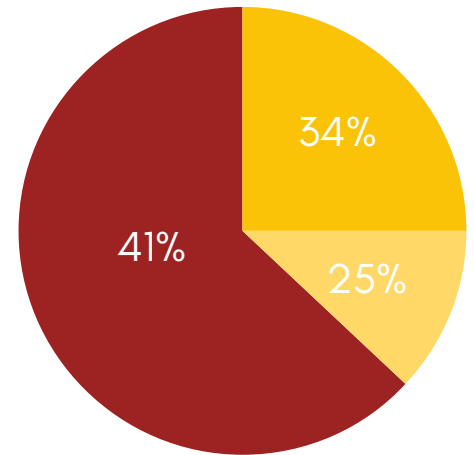
- 45% of customers felt well-prepared for appointments due to AI-driven scheduling, while 40% expressed feeling unprepared due to “incomplete customer information” and 15% said AI tools don’t always provide the right support.

Timeliness of Complaint Resolution

- 52% of customers stated that their complaints about the mobile banking app are “not addressed in a timely manner,” with 39% believing issues get resolved within a reasonable time, and 9% indicating complaints are often ignored for too long.

Accuracy of Information in Mobile Conversations

- 56% of employees reported that mobile conversations often fail to track customer information accurately, leading to repeated issues, while 30% said information is mostly correct, and 14% said the AI system frequently misses key details.



Focus Group

After hosting our focus groups with Wells Fargo customers, we found that many felt there was a lack of clear communication about AI features in the bank’s mobile app, leading to confusion and frustration. Customers mentioned that while AI tools like automated customer service and fraud detection were useful in theory, they often didn’t work as expected, which created delays and unnecessary stress. Many also expressed frustration that their feedback regarding these tools was rarely acknowledged. Some customers reported that they had encountered problems with the app or AI features multiple times, but their concerns were not resolved quickly enough. Additionally, several customers shared that their overall satisfaction with Wells Fargo had decreased after the increased reliance on AI during the pandemic.



Ethnographic Research of Digital Banking Habits



While carefully viewing each of the 9 customers who participated in our ethnocentric research, we identified several recurring issues centered around their experiences as a customer. The most prominent issues were around making appointments which was often found to be an unclear process. We also saw that even after securing appointments, customers still had long wait times. This was most likely due to overbooking, poor management systems, or unanticipated staff shortages. Customers also showed a feeling of dissatisfaction around the lack of information and communication that was provided to them during both their interaction with the mobile banking app and in person. This information gap was shown to often leave customers unprepared leading to decreased satisfaction.



Online Data/Research

From various articles online, we found that Wells Fargo is committed to building responsible AI by focusing on eliminating bias, ensuring transparency, offering alternative options for customers, and fostering partnerships to promote ethical AI use. The bank utilizes rigorous data validation and bias checks to ensure fairness in AI algorithms, while also making decision-making processes transparent and explainable. Additionally, Wells Fargo provides customers with alternatives to AI-driven services, such as personal interactions with branch staff or non-AI solutions, to accommodate varying preferences. This approach emphasizes trust and responsibility, ensuring that AI tools enhance the customer experience without causing harm.



Online Customer Complaints

This customer complaint revealed several critical issues with Wells Fargo's customer service and transaction handling. The customer experienced a lack of communication when their premier banker went on leave, leading to missed inquiries and confusion about transaction procedures. They received conflicting advice from various representatives, which resulted in a \$900 penalty for failing to complete transactions while traveling. The bank's poor response, including a lack of accountability and empathy, worsened the situation until the customer filed a complaint with the Consumer Financial Protection Bureau (CFPB). Following this, Wells Fargo re-investigated the issue, acknowledged internal errors, and issued a refund. This highlights the need for improved communication systems, consistent information across channels, better customer service protocols, and a more effective internal resolution process.



How FinTech is Shaping the Future of Banking | Henri Arslanian | TEDxWanChai

In Henri Arslanian's TED Talk, How FinTech is Shaping the Future of Banking, he outlines the growing role of AI in banking, offering enhanced efficiency and personalization. However, what we found aligns with his point that AI can create challenges in customer service. A key issue, as experienced by Wells Fargo customers, is that AI-driven systems often lack the empathy and problem-solving capabilities needed for complex issues, leading to frustration. For example, customers reported confusion and miscommunication when AI couldn't address their concerns effectively. Arslanian stresses the importance of integrating AI with human support to ensure a more balanced and effective customer experience, which is a key takeaway for improving Wells Fargo's AI strategy.

B. CONCLUSIONS BASED ON THE FINDINGS

Conclusion #1

Customers often struggle to find the right resources and support at Wells Fargo, leading to frustration and delays.

Customer Support Gaps

In our research, we found that many Wells Fargo customers face significant challenges when trying to access the right resources or get the support they need, which contributes to frustration and delays. Through various customer surveys and complaints, a common theme emerged: users often felt confused about which department or service to reach out to for their specific needs. For example, numerous customers reported difficulties when trying to book appointments or contact a branch manager, with many saying they weren't sure which documentation to bring, especially for important processes like loan applications or account changes. This lack of clarity led to wasted time and effort, as some customers arrived at the branch only to find they had the wrong paperwork or needed to speak to a different department altogether. Additionally, customers often struggled to navigate the Wells Fargo mobile app to find the right feature or support. They reported issues such as not being able to easily locate the customer service contact, troubleshooting information, or tools to manage their accounts, all of which added to the sense of helplessness. The surveys also revealed that when customers did manage to contact support, they frequently received inconsistent or conflicting advice, which only amplified the frustration.

Conclusion #2

Customers often encounter unexpected and unclear fees when managing online transactions or using mobile banking

Better Fee Transparency

We concluded that many Wells Fargo customers frequently face unexpected and unclear fees when managing online transactions or using the mobile banking app. Through our research and customer surveys, it became apparent that these fees—such as maintenance charges, overdrafts, and ATM withdrawals—often appeared without sufficient prior warning or clear explanation. Customers reported a lack of transparency, with some unable to understand what triggered specific charges or how to avoid them in the future. Many mentioned that the breakdown of these fees within the app or on statements was too vague, using broad terms like “service fee” or “transaction fee” without offering enough detail.

Additionally, some customers expressed frustration over not receiving adequate notifications about potential fees, which led to confusion and a lack of clarity in managing their accounts. This lack of transparency not only caused frustration but also diminished trust in the bank's digital services, as customers were left unsure about the accuracy of their charges.

Conclusion #3

Many customers report frustration with long wait times, whether they're visiting in person or waiting on calls to speak with an associate or consultant.

Wait Time Frustrations

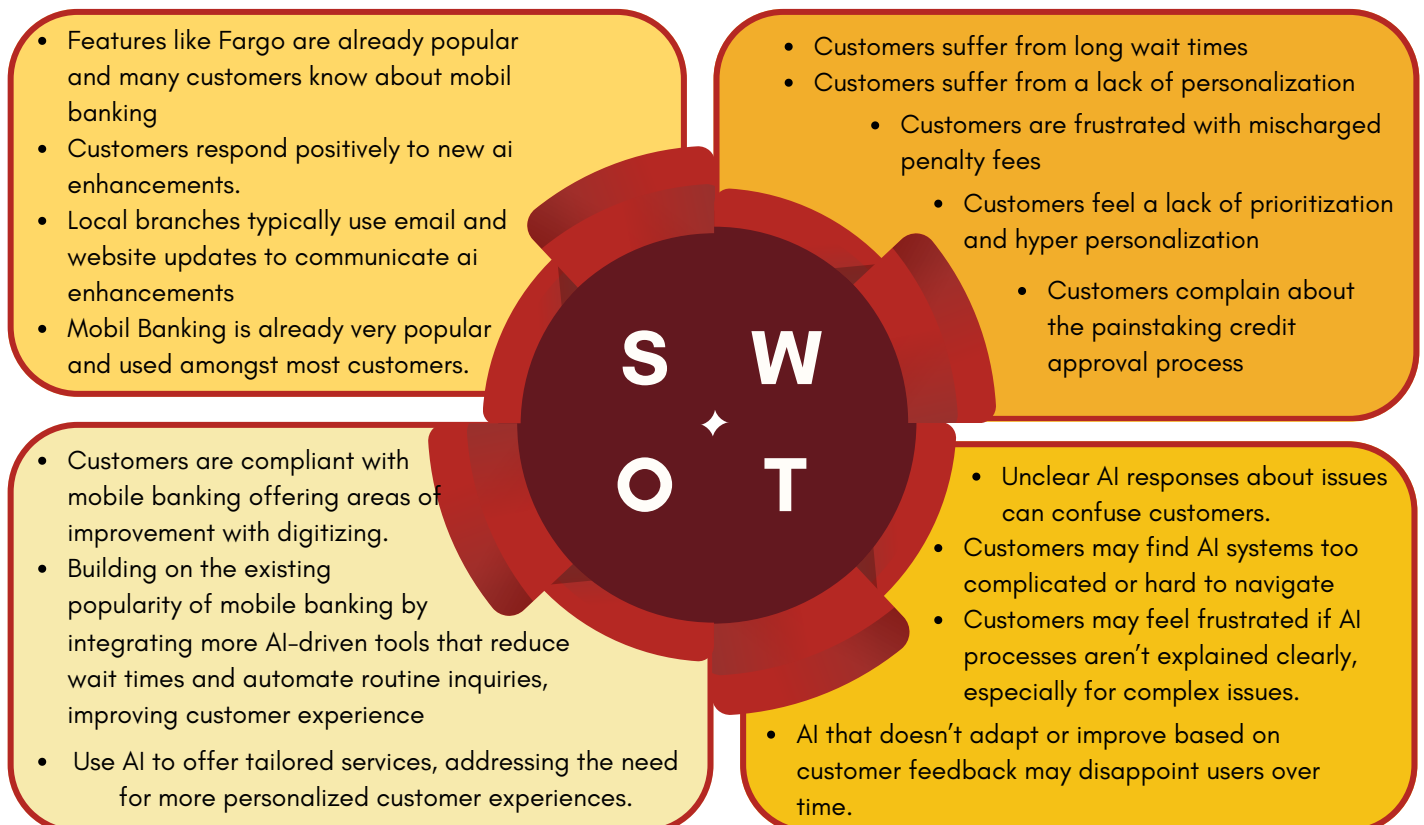
We concluded that many Wells Fargo customers experience significant frustration due to long wait times, both in-branch and on the phone when trying to speak with an associate or consultant. Online reviews and ethnocentric tracking revealed real-time waiting experiences, with customers frequently reporting long delays, sometimes hours, in physical branches or being placed on hold for extended periods during phone calls. Many customers shared that the unpredictability of wait times added to their frustration, especially when they had urgent matters to address. In addition, survey feedback highlighted issues such as customers having to repeat their concerns multiple times to different representatives, further delaying resolution. These inefficiencies contributed to a negative customer experience, suggesting that streamlining processes, such as implementing AI-driven appointment scheduling or enhancing staffing during peak hours, would significantly improve customer satisfaction and reduce frustration.

Conclusion #4

Wells Fargo's credit approval process can be slow and inefficient, leading to delays and a less streamlined experience for customers.

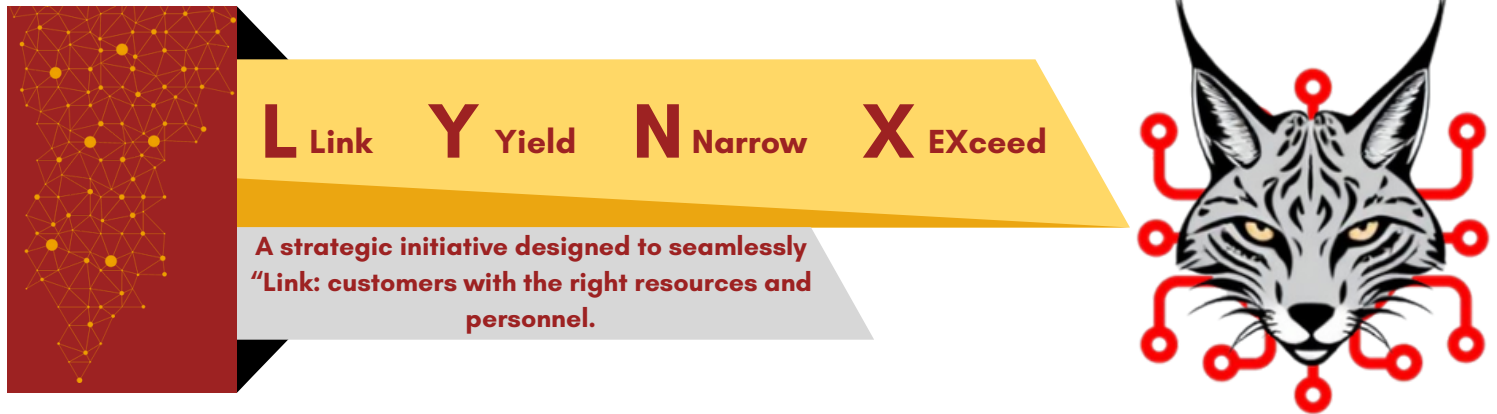
Streamlined Approvals

We concluded that Wells Fargo's credit approval process is often slow and inefficient, causing significant delays and a less streamlined experience for customers. Through customer surveys and ethnocentric tracking, we found that many customers experienced frustration with lengthy wait times and unclear communication during the approval process. Numerous complaints highlighted the need to submit repeated documentation and a lack of updates on application statuses. This inefficiency not only contributes to customer dissatisfaction but also signals an opportunity for Wells Fargo to leverage AI to streamline the credit approval process, improve transparency, and provide more personalized, faster decisions.



V. PROPOSED STRATEGIC PLAN

A. OBJECTIVES AND RATIONALE OF THE PROPOSED STRATEGIC PLAN



Project Lynx at Wells Fargo is an AI initiative that mirrors the lynx's sharp vision, adaptability, and precision in hunting. Just as the lynx uses its keen eyesight to spot potential prey, AI will analyze vast data to identify trends, opportunities, and risks. It will adapt to market changes, ensuring the bank stays ahead of customer needs and evolving conditions. By making data-driven decisions, Project Lynx aims to optimize operations, enhance customer service, and improve risk management.

Objective 1: Wells Fargo is responding inadequately to the lack of education and resources customers have when it comes to online banking and in person appointments.

Strategy 1: To improve customer education and access to resources, Wells Fargo will implement an AI-driven system that analyzes customer behavior on the mobile app, website, or call center. The AI will recommend optimal appointment times, direct customers to the right departments, and suggest resources based on previous interactions.

Rationale 1: This AI solution will streamline the customer experience by providing timely, personalized recommendations, reducing confusion and wait times. By analyzing customer behavior and continuously gathering feedback, Wells Fargo can better align resources with customer needs

Objective 2: Wells Fargo's complicated online phone transaction methods are leaving customers with a multitude of ghost charges and mis charged penalty fees.

Strategy 2: Wells Fargo will use AI to predict, alert, and resolve fee-related issues. The AI will analyze account history, send personalized fee alerts, and offer instant dispute resolution via a virtual assistant.

Rationale 2: This strategy minimizes surprise charges, speeds up issue resolution, and improves customer satisfaction by keeping clients informed and empowered to manage their fees.

Objective 3: Customers experience prolonged wait times, both in-branch and over the phone, and often feel their needs aren't prioritized.

Strategy 3: To address long wait times and ensure customer needs are prioritized, Wells Fargo will implement an AI-powered queue management system alongside an in-app appointment booking feature. This strategy allows customers to schedule visits, manage their time more efficiently, and receive real-time updates about their wait times, ensuring that each customer is served promptly.

Rationale 3: The AI-driven system will optimize customer flow, predict busy times, and allow customers to plan visits at the most convenient times, reducing in-branch congestion. By offering transparent, real-time updates, customers will feel more in control and valued. This strategy minimizes frustrations associated with wait times, boosts customer satisfaction, and improves overall operational efficiency without the need for additional staffing.

Objective 4: Improve Wells Fargo's credit approval process using AI, making faster, more accurate decisions while offering personalized options.

Strategy 4: To streamline Wells Fargo's credit approval process, AI will analyze broader data for faster, more personalized decisions, automate document verification, and reduce paperwork.

Rationale 4: AI enables quicker, more accurate credit approvals by considering factors beyond traditional credit scores and automating document checks, improving efficiency and customer satisfaction with faster, tailored loan options.

B. PROPOSED ACTIVITIES AND TIMELINE



Project LYNX Activity 1: Linking Customers to the Right App

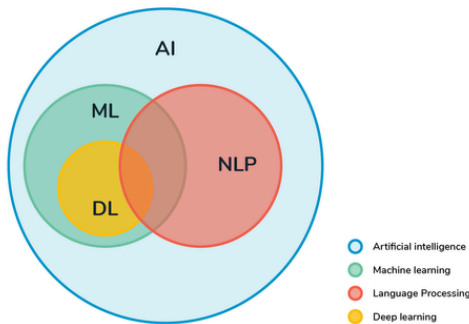
a. AI-Driven Resource Identification and Linkage

Key Actions:

- **AI Behavior Analysis:** The AI will analyze the customer's behavior on the Wells Fargo mobile app, website, or call center, using machine learning models to understand the nature of the query or issue.
- **Instantaneous Routing:** Based on the analysis, the AI will immediately recommend the right platform or channel for resolution. For example:
 - **App Feature Guidance:** If a customer is inquiring about checking account transactions, the AI will direct them to the "Account Activity" section in the app.
 - **Branch Manager Referral:** If the customer needs face-to-face support (e.g., for loans or large transfers), they'll be directed to a nearby branch manager or the specific employee with the right expertise.
 - **AI Customer Service:** For standard inquiries, AI chatbots or virtual assistants will handle the query, offering instant solutions like changing a password, reviewing statements, etc.

Technologies Used:

- Natural Language Processing (NLP) for analyzing customer queries.
- Predictive AI Models to forecast the most likely solution based on customer history.
- API Integration with the mobile app, website, and CRM system to provide seamless connectivity.



Graphic H: NLP Model with Machine Learning

b. AI-Driven Resource Placement in Real Time

Key Actions:

- **Dynamic Scheduling:** Customers will be encouraged to book appointments via the Wells Fargo app. The AI will calculate optimal times to visit based on real-time branch availability.
- **Time Slot Recommendation:** If there's a surge in customer visits during specific hours, the AI will recommend alternative time slots to avoid peak traffic.
- **Customer Profile Matching:** AI will remember a customer's previous issues (e.g., loan applications) and offer them direct access to relevant branches or departments.

Technologies Used:

- **AI-Integrated Appointment Systems:** Automated scheduling based on customer availability and branch capacity.
- **Location-Based AI:** For real-time branch recommendations, considering location, branch capacity, and customer preferences.

c. Customer Feedback Loop for Continuous Improvement

Key Actions:

- **Post-Interaction Feedback Requests:** After AI suggestions or interactions, customers will be prompted with a simple survey (e.g., 1-5 scale) to rate their experience and the effectiveness of the provided resources.
- **Usage and Behavior Analysis:** AI will analyze feedback and customer actions (e.g., did they use the suggested resource? Did they follow through with an appointment?) to improve the recommendation engine.

Technologies Used:

Machine Learning for improving resource recommendations based on customer feedback.

Survey Automation for quick and easy feedback collection.

Graphic I: Feedback Survey



Project LYNX Activity 2: Yield Uncertainty on Ghost Charges (Automated Fee Notifications)

a. Proactive Fee Alerts & Notifications

Key Actions:

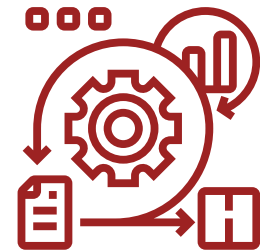
- Predictive Fee Alerts: AI will analyze customer account history and predict when certain fees (e.g., overdrafts, monthly maintenance fees, ATM fees) are likely to be incurred. For instance, if a customer's account balance is dipping below the threshold, they'll receive an alert a few days before the fee is charged.
- Personalized Fee Notifications: Customers can set up alerts for specific fees they want to monitor (e.g., for ATM withdrawals, credit card payments, etc.). The AI will notify them whenever they're close to a threshold where fees might apply.

Technologies Used:

- Predictive Analytics for fee forecasting based on spending behavior.
- Push Notifications integrated into the Wells Fargo app and email systems to send alerts.

Expected Outcome:

Fewer instances of surprise fees, leading to higher customer satisfaction.
Reduction in customer complaints related to hidden fees and charges.



b. AI-Powered Virtual Assistant for Fee Disputes

Key Actions:

- Instant Fee Dispute Resolution: If a customer believes they were incorrectly charged, they can interact with an AI-powered virtual assistant to investigate the charge. The assistant will review account history and current policies, and either resolve the issue or escalate it to a human representative.
- Ticketing System: AI will create a ticket for unresolved issues and track it until the issue is fully resolved, with updates pushed to the customer via the app.

Technologies Used:

- Virtual Assistants powered by NLP to understand customer complaints and provide immediate answers.
- Ticketing System Integration for automated escalation when needed.

Expected Outcome:

Faster issue resolution, reducing customer frustration.
Fewer calls to customer support centers, saving on operational costs.



Project LYNX Activity 3: Narrowing Long Wait Times

a. AI-Driven Appointment Scheduling & Queue Management

Key Actions:

- In-App Appointment Booking: Customers will be encouraged to schedule appointments via the Wells Fargo app, reducing long wait times for in-branch services. The AI will suggest optimal time slots based on branch traffic data.
- Queue Management System: Once a customer enters a branch, they will be added to a virtual queue. AI will manage the queue and notify the customer when their turn is approaching.

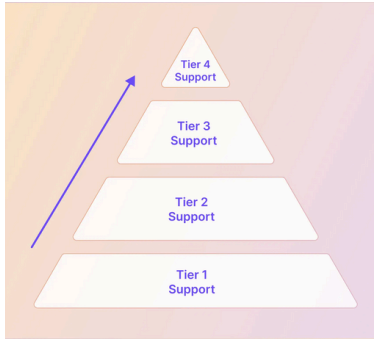
Technologies Used:

- AI Scheduling Algorithms for intelligent appointment booking.
- Virtual Queue Systems integrated into the app for real-time updates on wait times.

Expected Outcome:

Reduced in-branch waiting times, improving customer satisfaction.
Increased operational efficiency within branches.





Graphic J: Ticket Escalation Process



Project LYNX Activity 4: EXceed Credit Approval

b. Real-Time Wait Time Alerts and Notifications

Key Actions:

- Predictive Wait Time Calculations: Using AI, Wells Fargo can predict when branches will be busiest based on historical foot traffic data and other external factors. Customers will be alerted via the app to choose times that are less crowded.
- Instant Queue Updates: Customers in the virtual queue will receive real-time updates via their mobile devices, telling them how much longer they need to wait before being seen.

Technologies Used:

- Predictive Analytics to forecast branch traffic and optimize customer flow.
- Push Notifications for real-time wait time alerts.

Expected Outcome:

More predictable in-branch experiences, with fewer customers facing long wait times.
Increased customer retention by improving the in-branch experience.

a. AI-Based Credit Scoring System

Key Actions:

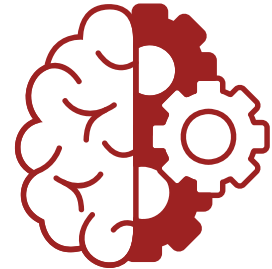
- Enhanced Data Processing: AI will analyze a broader range of data for credit scoring (e.g., income stability, spending patterns, social factors), beyond traditional credit scores. This will allow more customers to access credit, even if their traditional score is low.
- Real-Time Credit Decisions: AI will provide instant credit approval or rejection decisions, with the system offering personalized loan terms based on the customer's financial behavior.

Technologies Used:

- Machine Learning models to process customer data and evaluate creditworthiness.
- Alternative Data Integration (social media, transaction data) for broader insights.

Expected Outcome:

More inclusive credit approval processes, with faster decisions.
Personalized loan offerings based on individual financial behavior.



b. AI-Driven Document Automation

Key Actions:

- Document Submission & Verification: Customers will be able to upload required documents via the Wells Fargo app, with AI verifying the authenticity and completeness of the documents, automatically flagging missing or incorrect files.
- Paperwork Reduction: AI will streamline the entire loan processing workflow, reducing manual data entry and accelerating the time to approval.

Technologies Used:

- Document Processing AI for verification and validation.

Implementation Overview

How the AI will work:

- Activity 1 (Linking to the Right App): Customers interacting with the Wells Fargo app will be automatically guided by AI to the right branch resource (whether in-person support, a specific service in the app, or appointment scheduling).
- Activity 2 (Fee Transparency): When a fee is about to be charged, the AI will proactively alert the customer. If a fee is incorrectly applied, customers can quickly communicate with AI-powered chatbots for explanations or dispute resolution.
- Activity 3 (Reducing Wait Times): AI will manage appointment scheduling, ensuring customers have a time slot to meet with branch representatives. Calls will be routed to the right department based on their needs, reducing hold times.
- Activity 4 (Faster Credit Approvals): AI will help analyze credit applications faster, automatically reviewing more data points to give customers faster, more personalized loan options.

	Q1 (2026)			Q2 (2026)			Q3 (2026)			Q4 (2026)		
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
L	Phase 1: Planning and Research			Pilot Testing							Rollout	
Y	Predictive Fee Alerts get implemented					Fee Notifs						
N						Full Rollout				Roll out training for employees		
X	Implement Virtual Queue Systems			Maintenance			Track Wait Times					
	Document Submission & Verification				Enhanced and Instant Processing				Post-Launch Review			
		Document Processing					Maintenance					

C. PROPOSED METRICS OR KEY PERFORMANCE INDICATORS TO MEASURE PLAN EFFECTIVENESS

1



Customer Surveys:

2



Reduction in Wait Times:

3



Fee Dispute Resolution Rate:

4



Credit Approval Turnaround Time:

Benchmark:

Surveys:
85% positive
feedback at
the end of
each month

Wait Times:
20% Reduction
in average
wait times
mobil and in
person

Fee Dispute
Resolution
Rate:
>90% to meet
customer
expection

Credit
Approval:
< 30-50%
compared to
the previous
manual process

Customer Surveys:

Our key metric for tracking the success of the "linking" AI system at Wells Fargo is the Customer Satisfaction Score (CSAT), measured through monthly customer surveys.

After each AI-driven interaction, customers will rate their experience, particularly focusing on how well the AI connected them to the right resource or resolved their issue. We aim to achieve at least 85% positive feedback each month, with customers rating their experience as 4 or 5 stars. This metric will allow us to continuously assess the effectiveness of the AI in meeting customer needs, and ensure that the system is improving efficiency and satisfaction over time.

Formula: The CSAT score is typically calculated by dividing the number of positive responses (e.g., ratings of 4 or 5 out of 5) by the total number of survey responses.

Target: We will aim for 85% positive feedback at the end of each month to indicate success.

Thresholds:

- 85% or higher: Successful AI experience, meeting or exceeding customer expectations.
- 70-85%: Satisfactory, but opportunities for improvement exist.
- Below 70%: Signals significant issues with AI performance that need immediate attention.

Reduction in Wait Times:

A key metric for measuring success is the reduction in average wait times for both in-branch and phone interactions. By streamlining appointment scheduling and improving queue management, we aim to cut wait times by 20-30% within the first six months, leading to faster service and better overall customer satisfaction.



Fee Dispute Resolution Rate:

Our key metric for evaluating the success of the fee dispute resolution process at Wells Fargo is the Fee Dispute Resolution Rate (FDRR). This is measured by calculating the percentage of resolved disputes within a set timeframe, ensuring customers experience timely and satisfactory outcomes. After each dispute is resolved, customer feedback is gathered through surveys to assess satisfaction with the resolution process, particularly focusing on clarity, fairness, and timeliness.

The Fee Dispute Resolution Rate is calculated as:

$(\text{Number of resolved disputes within the target timeframe} \div \text{Total number of disputes filed}) \times 100\%$

Target:

Our goal is to achieve a monthly FDRR of at least 90%, reflecting efficient and customer-centric dispute handling.

Thresholds:

- 90% or higher: Indicates successful dispute resolution, meeting customer expectations.
- 75-90%: Acceptable but highlights areas for process improvement.
- Below 75%: Signals operational inefficiencies requiring immediate corrective action.

Credit Approval Turnaround Time:

Our key metric for tracking the success of the credit approval process is the Average Credit Approval Turnaround Time, measured by monitoring the time taken to approve credit applications from submission to decision. By streamlining workflows and implementing advanced automation, we aim to achieve faster decisions and an improved customer experience.

The Average Credit Approval Turnaround Time is calculated as:

$(\text{Total time taken for all credit approvals} \div \text{Number of credit applications processed})$

Target:

- We aim to reduce the average turnaround time by 35% within the first six months. Hoping for our threshold staying a 35% or higher reduction to show exceptional performance which exceeds expectations. This metric will allow us to continuously assess the efficiency of the credit approval process, ensuring improvements in operational speed and customer satisfaction over time.

VI. PROPOSED BUDGET

This AI-driven plan for Wells Fargo's local branch will streamline operations, enhance customer experiences, and reduce operational costs. By investing \$300,000 to \$400,000 in AI solutions, Wells Fargo can improve its efficiency, customer satisfaction, and competitive position in the market. A 200% ROI by Year 5 is typical in the banking industry when AI technologies are implemented, given their proven ability to drive long-term value.

Cash Flow and ROI (5-Year Projection)					
Year	Annual Expenses	Cumulative Expenses	Annual Revenue	Cumulative Revenue	ROI
Year 1	\$300,000	\$300,000	\$200,000	\$200,000	-33.33%
Year 2	\$70,000	\$370,000	\$350,000	\$550,000	50%
Year 3	\$70,000	\$440,000	\$450,000	\$1,000,000	100%
Year 4	\$70,000	\$510,000	\$500,000	\$1,500,000	150%
Year 5	\$70,000	\$580,000	\$600,000	\$2,100,000	200%

ROI Calculation and Affordability

Return on Investment (ROI) for this AI implementation project was calculated by comparing the annual revenue gains from improved efficiency, customer retention, and new credit approvals against the cumulative project expenses over a 5-year period. We assumed an initial investment of \$300,000 in Year 1, followed by \$70,000 in annual maintenance and training costs.

Annual revenue growth was projected conservatively:

- Year 1: Partial implementation with early-stage benefits: \$200,000
- Year 2-5: Full rollout increases gains from faster service, higher customer satisfaction, and more efficient loan approvals, growing to \$600,000 annually by Year 5.

Cumulative ROI is calculated using the formula:

$$\text{Cumulative ROI} = \frac{\text{Cumulative Revenue} - \text{Cumulative Expenses}}{\text{Cumulative Expenses}} \times 100$$

Proof of Affordability: Wells Fargo’s AI Investment Capabilities

Wells Fargo has consistently invested heavily in technology and innovation. In fact:

- In 2022, Wells Fargo spent approximately \$9 billion on technology, with a growing portion allocated specifically to AI, machine learning, and digital banking transformation.
- The company launched its AI-driven virtual assistant “Fargo” in 2022 and has been expanding AI-driven services across fraud detection, underwriting, and customer service.
- Their digital transformation roadmap includes scaling branch-level AI solutions, aligning perfectly with this \$300K pilot program.

Relative Scale Comparison:

- A \$300,000 investment represents just 0.0033% of the bank’s annual tech budget.
- That’s equivalent to a local branch testing initiative that could easily be replicated across hundreds of locations once proven successful, all without burdening Wells Fargo’s budget.

Breakdown of AI Implementation Costs for Wells Fargo Branch				
Category				Estimated Cost
AI Development & Setup				\$150,000
Custom Ai Model Development				\$60,000
Platform Integration				\$40,000
User Interface Design				\$25,000
Testing & Validation				\$15,000
Integration and Infrastructure				\$75,000
Cloud Computing Services				\$30,000
Hardware Upgrades				\$20,000
API Integration				\$25,000
Employee Training				\$30,000
Training Materials				\$10,000
On-Site Training Sessions				\$15,000
Ongoing Support & Trouble Shooting				\$5,000
Ongoing AI Support & Maintenance				\$40,000/Year
Cloud Storage & Compute Costs				\$15,000/year
Software Updates & Patches				\$10,000/year
Ongoing AI Model Refinement				\$15,000/year
Total Initial Cost				\$300,000

Summary of Key Areas and Cost Allocation

- AI Development & Setup:** This represents the largest upfront cost, accounting for 50% of the total project cost. It includes the creation of custom AI models, integration with existing systems, and testing.
- Integration & Infrastructure:** This is the next significant area, covering the technological backbone of AI implementation, including cloud services, hardware, and third-party APIs.
- Employee Training:** Proper training ensures the branch team can effectively use and manage the new AI-powered tools. This will involve both initial and ongoing training efforts.
- Ongoing Support & Maintenance:** While this is an annual cost, it is necessary to ensure the AI system continues running smoothly and evolves with customer needs.

By breaking down the costs into these specific areas, the overall implementation of AI in the Wells Fargo branch remains within a \$300,000 budget, ensuring the project is realistic and sustainable over the first year of implementation. The ongoing costs for the following years are manageable and will contribute to continuous optimization of the AI system, benefiting both customers and employees.

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