

Machine Learning Engineer/Data scientist/Data Engineer

With 8+ years of experience in the field of machine learning, deep learning, natural language processing, and algorithmic trading. Skilled in designing and implementing ML systems at scale for Websites, Application, Devices, Automation, NLP, chatbots, search, and recommender systems. Proficient in Time-series, Graphs, Geo-tagged, supervised, unsupervised learning and Reinforcement Learning techniques. Strong analytical and problem-solving skills, with proficiency in multiple programming languages and tools.

Experience:**Machine Learning Engineer/Data Scientist/Data Engineer****Cleveland Clinic and Veteran Affairs Medical Center**

Jan 2023 - Present

- Developed and maintained stacked machine learning models and Gradient Boosting Classifier for disease classification and deployed the ML model to speed-up diagnosis using python, R and Tableau.
- Built Python automation script to collect, clean, process and extract features to pipeline data for deployment using tools such as TensorFlow, PyTorch, and scikit-learn.
- Reviewed various research papers on ML/AI and gave comments.
- Utilized Python with tools such as scikit-learn, lifelines, and pandas to design and implement statistical learning, time-to-event, and predictive survival models on real-world evidence (RWE) data sourced from 17M patients' records using cloud development technologies such as AWS.
- Deployed ML model using AWS sagemaker, EMR, S3 using Github.
- Built live dashboards using HTML, CSS, JavaScript, and React.js to visualize data and track key performance indicators (KPIs).

R&D Data Scientist/Data Engineer**Case School of medicine**

Nov 2022 - Dec 2022

- Developed a Recommendation model for prostate cancer patients using ML techniques and gene analysis, providing treatment insights, with tools such as Cibersortx, TensorFlow, PyTorch, and scikit-learn.

Lead Data Scientist**Capital Now**

Jan 2021 - Aug 2022

- Developed defaulter prediction model, using ML model, and build AI chatbot for customer communication using NLP.
- Owned and managed dynamic Reject Inference (RI)/Loan Performance data tables (100 million+ rows) from various credit bureaus.
- Classified customer churn using ML/AI with MLP, GBD, RF, DT.
- Built service to recommend products and services to users using collaborative filtering, content-based filtering, and hybrid methods.

Machine Learning Engineer and Data Scientist**Stratycon**

Jan 2018 - Dec 2020

- Constructed sentiment analysis using NLP for over 70+ American companies to mask credit card information using NLTK and SpaCy.
- Designed Number plate detection using OpenCV, YOLO and TensorFlow Object Detection API with an accuracy of 90%.
- Performed BigData Analysis using Pyspark, Pysql, Python, Tableau
- Built and maintained VOIP using AI to reduce human intervention.
- Developed and deployed a recommendation system for customer purchase patterns using market basket analysis tools and libraries, such as Apriori, Eclat, and FP Growth.

Data Analyst**Merxius Software Pvt Ltd**

Jan 2014 - Dec 2017

- Analysed customer revenue and costs streams to develop new storage pricing rates for contracts.

Skills:

- linear algebra, statistical modeling and probability.
- Python, R, Julia, Java, C++, scala, Linux
- Html, css, Js, Nodejs, react native, mongodb,
- RDBMS, sql, DDL, nosql, databricks, snowflakes
- Bigdata, Spark, hive, pig
- Airflow, Data Robot, Mlflow, KubeFlow, Hadoop
- Aws: sagemaker, s3, ec2, emr, lex, databricks
- Azure: Devops, Terradata, Event Hubs, Functions Kafka, Spark Streaming, Databricks
- Time series Forecasting
- GCP: Vertex-Ai, Dialogflow, databricks
- TensorFlow, Keras, HuggingFace, PyTorch, SpaCy, NLTK, NumPy, Pandas, Scikit-learn, Pyspark, Pysql, Numpy, genism, CoreNlp
- DevOps, Docker, Kubernetes, git, git-hub, Jenkins, argocd
- Flask, Django, Rest-api, Micro-services,
- powerbi, Tableau, plotly, qlikview
- selenium, testing
- data structures and algorithms.
- BERT, EMLO
- Generative AI, Synthetic data generation,
- LLMS, Variation Autoencoders
- Generative Adversarial Models, Autoregressive Models
- IBM Watson Assistant
- ETL, ELT
- Excel, Mathematics, Actuarial, SAS, Teradata

Education:

MS Biomedical Engineering with specialization in ML and AI (2023)
Case western Reserve University (GPA 3.7/4.0)
(concentrations: AI in healthcare, Machine Learning, Statistics and Probability)
(Honors: Best master's student in BME(2023))

Bachelors Electronics and communication (2015)

Certifications:

- ☞ GCP professional ML engineer
- ☞ GCP Generative AI Specialist
- ☞ AWS data analysis specialist
- ☞ SparkNLP
- ☞ Microsoft Azure Dp200
- ☞ CITI: Artificial Intelligence

Conferences and achievements:

☞ **Gordon Eye Movement conference:** presented disease classification using ML for strabismus, amblyopia and mixed.