

DATA VISUALIZATION

INTERMEDIATE

5 DAYS

Data Visualization for Data Analysis and Analytics

Build a strong foundation in data visualization by understanding core principles, best practices, and visualization types. Learn how to analyze and interpret data, design impactful visuals, and create interactive dashboards and reports that support clear, data driven decision making.

Why Data Visualization?

Enhanced Understanding of Data

Data visualization transforms complex and voluminous data into visually appealing and easy-to-understand representations. Visualizations provide a visual context that facilitates comprehension and decision-making.

Communicating Insights Effectively

Visualizations are powerful tools for communicating complex data and analysis results to stakeholders across the organization.

Improved Decision-Making

Effective data visualization enables businesses to make data-driven decisions confidently.

What you'll be able to do

- ✓ Gain a solid understanding of the importance of Data Visualization
- ✓ Learn Data Visualization Principles and Best Practices
- ✓ Get introduced to various types of data visualizations and their applications
- ✓ Develop Proficiency in Data Visualization Tools
- ✓ Learn the techniques for designing visually appealing and informative visualizations
- ✓ Learn how to analyze and Interpret Data through Visualization
- ✓ Learn how to create Interactive Dashboards and Reports

Who this is for

- Data Analysts
- Data Scientists
- Business Analysts
- Data Engineers

Curriculum

01 Foundations and Principles

- Apply foundations and principles in practical visualization workflows
- Build and refine examples using realistic datasets
- Check clarity, accuracy, and stakeholder readability
- Document choices and iterate based on feedback

02 Choosing Chart Types

- Apply choosing chart types in practical visualization workflows
- Build and refine examples using realistic datasets
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03 Data Prep and Encoding

- Apply data prep and encoding in practical visualization workflows
- Build and refine examples using realistic datasets
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04 Color and Design

- Apply color and design in practical visualization workflows
- Build and refine examples using realistic datasets
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05 Dashboards and Storytelling

- Apply dashboards and storytelling in practical visualization workflows
- Build and refine examples using realistic datasets
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06 Exploratory and Time-Series Viz

- Apply exploratory and time-series viz in practical visualization workflows
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07 Spatial and Network Viz

- Apply spatial and network viz in practical visualization workflows
- Build and refine examples using realistic datasets
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08 Interactive and Visual Analytics

- Apply interactive and visual analytics in practical visualization workflows
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09 Critique and Ethics

- Apply critique and ethics in practical visualization workflows
- Build and refine examples using realistic datasets
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10 Big Data and Streaming Viz

- Apply big data and streaming viz in practical visualization workflows
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11 Collaboration and Sharing

- Apply collaboration and sharing in practical visualization workflows
- Build and refine examples using realistic datasets
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