

Day - 1

- **Introduction to Databricks**

- Overview of Databricks platform
- Key features and benefits of using Databricks for data analysis
- Understanding the Databricks environment and UI
- Setting up Databricks workspace and clusters.

- **Data Analytics Fundamentals**

- Understanding data analytics concepts
- Introduction to data science and machine learning workflows
- Overview of SQL and Spark
- Working with notebooks in Databricks.

- **Data Cleaning and Transformation**

- Data wrangling using Databricks
- Using Spark SQL for data manipulation
- Transforming data for analysis
- Handling missing data and outliers.

- **Data Visualizations**

- Creating and customizing visualizations in Databricks
- Understanding data visualization types (bar charts, line graphs, histograms, etc.)
- Hands-on practice with data visualization tools

- **Advanced SQL Queries in Databricks**

- Writing complex SQL queries
- Working with joins, subqueries, and aggregations
- Optimizing SQL queries for performance
- Setting up Databricks workspace and clusters.

- **Introduction to Machine Learning in Databricks**

- Overview of machine learning models in Databricks
- Creating machine learning pipelines
- Introduction to data science workflows.

- **Collaborative Data Analysis in Databricks**

- Working with teams in Databricks: shared notebooks and collaborative features
- Version control and Git integration in Databricks
- Best practices for collaboration in data analytics teams.

- **Data Reporting and Dashboards**

- Building interactive reports and dashboards
- Automating reporting workflows
- Sharing results with stakeholders and teams.

- **Databricks Exam Overview**

- Understanding the exam structure and objectives
- Reviewing the key concepts covered in the certification exam
- Test-taking strategies.

- **Hands-on Practice: SQL and Spark in Databricks**

- Completing practice exercises with SQL and Spark
- Analyzing datasets and solving real-world problems.

- **Final Hands-on Session**

- Completing a mock project or case study
- Applying learned skills in a collaborative environment.

- **Exam Preparation Review**

- Reviewing key topics in preparation for the certification exam
- Last-minute Q&A and clarification.