

Data Science Course

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Course purpose: Practical, job-oriented learning from fundamentals through implementation, testing, troubleshooting and project work.

Course fee: Contact WC Skills for the current batch fee and available offers. **Contact:** info@wcskills.in | +91 99999 99999

Complete Module-wise Syllabus

Module 1: Data science lifecycle

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 2: Python and notebooks

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 3: NumPy and Pandas

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 4: Statistics and probability

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 5: SQL

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 6: Data cleaning

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 7: Exploratory data analysis

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 8: Visualization

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 9: Feature engineering

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 10: Regression

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 11: Classification

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 12: Clustering

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 13: Model evaluation

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 14: Time series

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 15: NLP basics

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 16: Deployment and MLOps basics

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Module 17: Capstone projects and interview preparation

Concepts and terminology; architecture or business process; configuration/development steps; important objects and dependencies; integration points; testing; monitoring; common errors and troubleshooting; real-world use cases; interview discussion points.

Hands-on: Build a small practical example, test the happy path and an error case, document the result, and explain the design.

Capstone Project

Complete one end-to-end project relevant to the course. Prepare requirements, process flow/architecture, implementation or configuration notes, test cases, sample output, troubleshooting record and project walkthrough.

Interview Preparation

Prepare fundamentals, scenario-based questions, troubleshooting, performance/security considerations, project explanation and version-specific differences.

Note

This is an independent WC Skills training syllabus, not an official SAP certification document. Product features and certification objectives can change by release.