

Machine Learning Course

WC Skills | wcskills.in — Complete Course Content

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: ML fundamentals

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: Data 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.

Module 3: 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 4: 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 5: Decision trees

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: Ensemble learning

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: SVM

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: 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 9: Dimensionality reduction

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: 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 11: Evaluation metrics

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: Hyperparameter tuning

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: Imbalanced data

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

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: Deep learning introduction

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: Model deployment and MLOps

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 18: Capstone 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.