

AI Excel Course Syllabus

Section 1: Introduction to AI in Excel - 2 Hours

- Overview of Al-powered features in Microsoft Excel
- Understanding Al's role in data analysis
- Natural Language Queries in Excel
- Real-world use cases for AI in Excel

Section 2: AI + Excel Fundamentals - 3 Hours

- Data types, formatting, and tables
- Essential formulas and functions
- Data validation and conditional formatting
- Keyboard shortcuts for faster work

Section 3: Data Cleaning & Transformation – 4 Hours

- Power Query basics for data preparation
- Removing duplicates and handling missing values
- Al-assisted text and number cleaning
- Combining data from multiple sources

Section 4: Al-Powered Data Analysis – 4 Hours

- Using Excel "Analyze Data" for instant insights
- Al-assisted pivot table creation
- Detecting trends and anomalies with AI
- Interactive visualizations with AI

Section 5: Forecasting & Predictive Analytics – 4 Hours

- Time-series forecasting in Excel
- Al-powered sales prediction models
- Forecast Sheet for automated projections
- Evaluating model accuracy

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Section 6: Machine Learning with Excel Add-ins - 5 Hours

- Installing AI/ML add-ins (ML, DataRobot, etc.)
- Training simple models in Excel
- Importing external ML model results
- Running predictions directly in Excel

Section 7: Automation with AI - 4 Hours

- Al-assisted formula generation
- Creating VBA macros with AI help
- Automating reports using AI tools
- Integrating Excel with Power Automate

Section 8: AI + Power BI Integration - 4 Hours

- Connecting Excel datasets to Power BI
- Al-driven data visualizations in Power BI
- Creating interactive dashboards
- Automating refresh and insights updates

Section 9: Al-Enhanced Decision Making – 3 Hours

- Orchestrating AutoGen inside LangGraph
- Using AI for scenario analysis
- Risk assessment in Excel with AI models
- Al-based optimization techniques
- Decision support dashboards

Section 10: Real-Time AI + Excel Projects

- Capstone Project 1: Sales Forecast Dashboard with AI
- Capstone Project 2: Automated Financial Reports with AI
- Capstone Project 3: Customer Sentiment Analysis in Excel
- Capstone Project 4: Al-powered Marketing Performance Tracker