

Data Analytics & AI: Unlocking Potential and Intelligence

(Excel, Power BI, SQL & Chat GPT)

COURSE CONTENTS

Session 1: Introduction to Data Analytics

- Overview of Data Analytics: Importance in decision-making
- Key Concepts: Descriptive, diagnostic, predictive, and prescriptive analytics
- Tools Overview: Excel, SQL, Power BI, ChatGPT/Copilot and Presentation Skills

Session 2: Excel for Data Analysis

Data Preparation and Cleaning

- Importing Data into Excel
- Data Transformation with Power Query

Essential Visualizations

- Creating Charts in Excel
- Best Practices in Visualization

Advanced Data Analysis Tools

- PivotTables and PivotCharts

Section 3: Data Analysis using ChatGPT/Copilot

Data Cleaning and Preparation with ChatGPT/Copilot

- Text Data Cleaning
- Exploratory Data Analysis (EDA) with ChatGPT

Data Visualization Guidance

- Chart Recommendations
- Visualization in Tools

Automating Analysis with AI Assistants

- ChatGPT/Copilot for SQL Queries
- ChatGPT/Copilot with Excel, Power BI & SQL
- ChatGPT/Copilot for Presentations (PPT)

Section 4: Power BI for Data Analysis

- Getting Data from Various Sources
- Data Transformation using Query Editor
- Establishing Table Relationships
- Essential Visualizations
- Calculated Columns Demystified
- Cracking Calculated Measures
- Foundations of Basic DAX

AI-Powered Visuals and Financial Insights

Section 5: SQL for Data Analysis

- What is SQL Server?

SQL Server Management Studio (SSMS) Interface

FACILITATOR

Mr. Irfan Bakaly who got Pakistan's first Microsoft Most Valuable Professional (MVP) award in Excel category, is also having 20+ years of experience in technology training field and served many institutions & organizations of repute. He is also a YouTuber with an active tutorial channel by the name of "Irfan Wazir Ali" which has more than 525+ videos.



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