

## Module 1: Introduction to Python in Excel

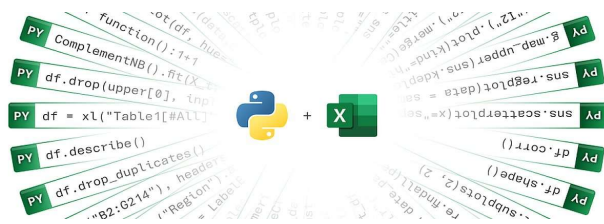
What is Python in Excel (Microsoft 365 integration)  
Use cases of Python in Excel  
Setting up Excel for Python (Excel Labs, Anaconda, or xlwings)

### Python in Excel



## Module 2: Python Basics for Excel Users

Variables, data types, and operators  
Conditional logic (if, else)  
Loops (for, while)  
Functions and lambda expressions  
Lists, tuples, dictionaries



## Module 3: Working with Excel Data

Reading and writing Excel files using:  
DataFrames and Excel Tables  
Accessing cell values, ranges, and sheets

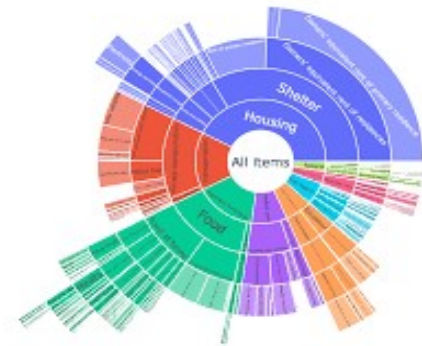
## Module 4: Data Cleaning & Analysis

Handling missing values  
Filtering and sorting data  
Grouping and summarizing (pivot-like operations)  
Merging and joining tables  
Date and time functions



## Module 5: Data Visualization in Excel with Python

Line, bar, pie charts using matplotlib & seaborn  
Embedding plots inside Excel sheets  
Styling charts (colors, labels, legends)  
Exporting plots to Excel or images



## Module 6: Excel Automation using Python

Automating repetitive tasks (reports, formatting)  
Sending emails with Excel attachments  
Scheduling tasks with Python  
Interacting with Excel formulas

## Module 7: Advanced Excel-Python Integration

Interactive Excel dashboards with Python  
Custom Python functions in Excel cells  
Excel buttons triggering Python scripts  
Scripting with Office Scripts (bonus)

## Module 8: Real-World Projects

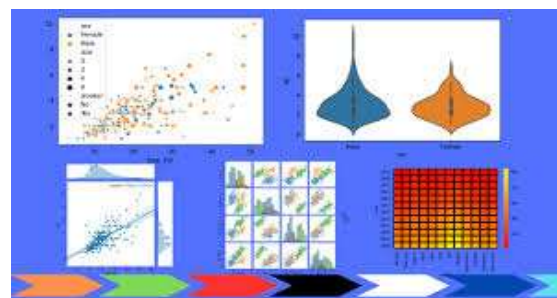
Sales Dashboard with Python & Excel  
Inventory Management System  
Excel Reporting Tool with auto-mailing  
Forecasting and prediction using Excel + Python (basic ML)

## Module 9: Sharing and Deployment

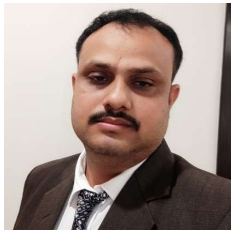
Protecting Excel files with embedded Python  
Exporting Excel+Python solutions to clients  
Sharing via OneDrive/SharePoint with Python support  
Introduction to Power BI integration (optional)

## Final Assessment & Certificate

Capstone Project  
Q&A / Viva  
Feedback & Certification



## About the Instructor



### MR. Sujit Kumar Singh

MIS & Data Analyst

Sujit Kumar Singh is a seasoned Excel and MIS (Management Information Systems) trainer with over 21 years of experience in the field. He has worked as an MIS Executive and VBA Developer across more than 10 companies and currently serves as a report consultant for over 40 organizations. His teaching approach emphasizes practical, real-world applications, aiming to equip learners with skills directly applicable to their professional tasks

In 2007, Sujit founded IPT Excel School, one of the pioneering institutes in New Delhi offering online live classes in Advanced Excel and MIS training. The institute caters to working professionals, providing courses that cover Advanced Excel, VBA Macros, Dashboard creation, and Power BI.

Sujit also maintains an active presence on platforms like YouTube and LinkedIn, where he shares tutorials and insights on Excel and related tools. His YouTube channel, Sujeet Kumar Advanced Excel Training in Hindi, offers a range of videos aimed at enhancing Excel proficiency.

For more information or to enroll in his courses, you can visit IPT Excel School's website or contact him directly at +91 8802579388.

## IPT Excel School

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