

Python Training Requirements

Category	Training Topics
Python Fundamentals	- Python syntax, data types, and control structures.
	- Using libraries like Pandas, NumPy, and Matplotlib for data manipulation and visualization.
Automating Data Fetching	- Introduction to APIs and RESTful services.
with APIs	- Fetching financial and operational data using APIs.
	- Parsing and processing JSON/XML data.
	- Integrating API data with Excel.
Data Extraction from PDFs	- Using libraries like PyPDF2, pdfplumber, and tabula-py for extracting text and tables from PDFs.
and Images	- Implementing OCR with Tesseract to extract data from images.
	- Cleaning and formatting extracted data for use in Excel.
Transition from Excel VBA to Python	- Basics of Excel automation with Python (openpyxl, xlwings).
	- Converting Excel VBA code to Python scripts.
	- Creating Python-based Excel plugins/add-ins.
Version Control	- Introduction to Git and version control.
with GitHub	- Setting up and managing repositories on GitHub.
	- Collaborating on code and maintaining version histories.
Advanced Excel Integration	- Building Python scripts to automate complex Excel tasks.
	- Creating custom Excel plugins to execute Python scripts directly.
	- Integrating dashboards and advanced visualizations using Python and Excel.
Practical Application	- Hands-on projects relevant to financial data automation.