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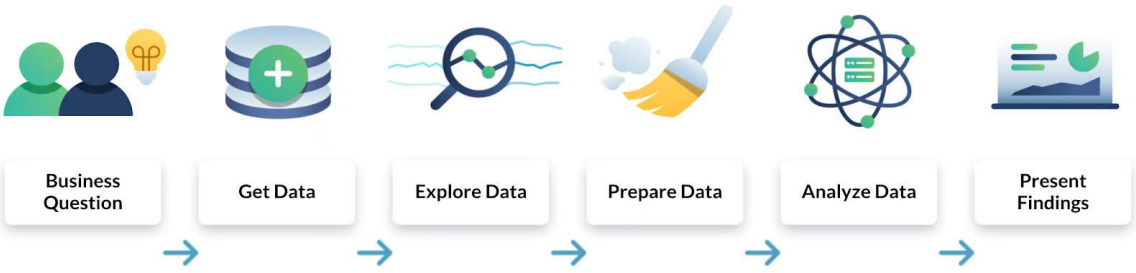
IPT Excel School

Advanced Excel & MIS Training School

Data Analysis Course



SYLLABUS
DATA ANALYST

Sujit Kumar Singh

Founder of IPT Excel SchooL

1st इंडिया Online Live Trainer

From 2007 to Tilled

OUR STORY

With over two decades of experience in Excel, I have honed my skills as an MIS Executive and VBA Developer across more than 10 companies. Currently, I serve as a Report Consultant for 40 companies, delivering tailored solutions and expert advice.

My journey with Excel began in 2003, and since then, I have dedicated myself to mastering its intricacies and applying my knowledge to solve real-time official problems.

I not only teach Excel but also provide comprehensive support for a wide range of business challenges. My goal is to empower professionals to leverage Excel's full potential and enhance their productivity. Join me to gain practical insights and tackle real-world issues effectively.

st इंडिया Online Live Trainer

From 2007 to Tilled

CURRICULUM

Data Analyst

specialize in advanced Excel techniques, including complex formulas, data analysis, automation

in Power BI, enabling me to create dynamic and interactive dashboards for data visualization and business intelligence

create dynamic and interactive dashboards for data visualization and business intelligence

Learn Core Python and

With MS Excel and Power BI

Python enables me to automate processes, analyze complex datasets, and develop custom solutions to meet specific business needs

VBA allows me to automate repetitive tasks, create custom functions, and streamline complex workflows within Excel

SQL allows me to manage and analyze large datasets efficiently, design complex queries, and ensure data integrity

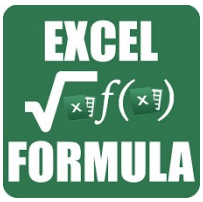
Part -1

Advanced Excel and Dashboard

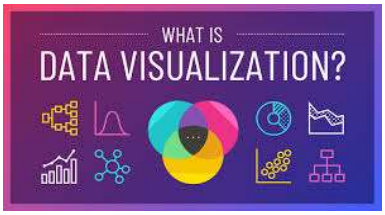
- Large Data Selection and Shortcuts

- Complicated Calculation with Math Operators
- Advanced Paste Special and Pictoure Lookup
- Custom and Conditional Formating for Dashboard Reporting
- Excel In-Build AI in Excel and Data Handling (Short - filter)
- Advanced Pivot and Power Pivot

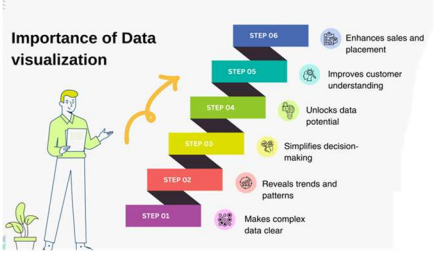
- Making Dashboard with Pivot and Pivot Chart
- Mastering Formulas and Functions



- > 300 Formulas with Array Formulas
- make own Formulas without using VBA use LAMBDA
- Data Analysis and Visualization - Dashboard



- Data Management and Automation
- Advanced Data Tools
- Power BI and Data Connectvity from Comon Data Sourse
- Collaboration and Security



- Case Studies and Projects

Conclusion

Review of key concepts and skill: Q&A and troubleshooting common issues

Final projects and practical applications

This advanced course will equip you with the skills needed to excel in data analysis, automation, and visualization using Excel

Part -2

POWER BI Dashboard and DAX

- Introduction to Power BI and Power BI tools and services
- **Requirements Gathering**

- Extract, Transform, and Load (ETL) Data
- Power BI Desktop

- Data extraction and transformation
- Data modeling and formatting
- Designing Reports
- Creating interactive and visual reports

- Using visualizations and fields
- Using Power Query and Data Analysis Expressions (DAX)
- Building and sharing dashboards

- Advanced DAX functions
- Power BI Cloud and Report Server
- Security and data management
- **Advanced Data Modeling and DAX**
- **Real-World Case Studies and Best Practices**

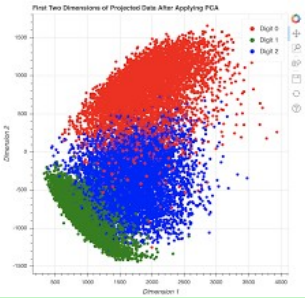
Conclusion

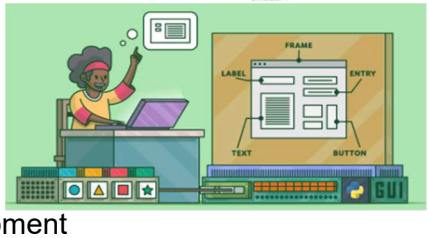
This detailed outline should provide a comprehensive and in-depth learning experience for anyone looking to master Power BI.

Part -3

Python Data Analysis & Visualization

- Introduction to Python for Data Analysis
- Python Basics snd Core Python
- Data Manipulation with Pandas
- Data Visualization with Matplotlib and Seaborn
- Statistical operations with NumPy
- Exploratory Data Analysis (EDA)
- Working with Time Series Data
- Statistical Analysis
- Reshaping and Pivoting Data
- Combining Data
- Data Cleaning and Preprocessing
- Big Data and Distributed Computing
- Big Data and Distributed Computing
- Advanced Dashboard Design and Development
- Building Dashboards with Streamlit
- Introduction to GUI Development in Python with TKINTER and PyQt
- **Practical Case Studies and Projects**

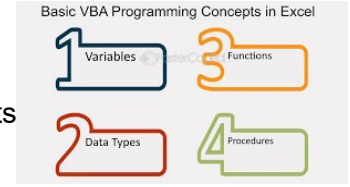




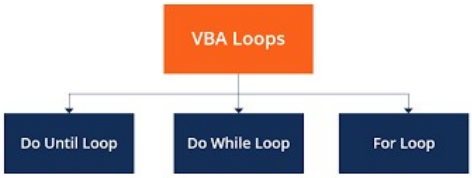
This outline should give you a solid foundation in Python for data analysis. If there are specific areas you want to focus on

Part -4

VBA Macros for Report Automation

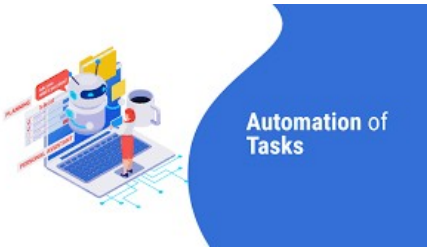


- Basics of VBA Programming
- VBA syntax and basic programming concepts
- Variables, data types, and constants
- If...Then...Else statements



- For...Next DO While - Until loops
- Working with Excel Objects
- Understanding Excel object model (Workbook, Worksheet, Range, Cells)

- Functions and Subroutines
- Error Handling and Debugging
- User Forms and Controls
- Working with External Data
- Accessing and manipulating external databases (ADO, DAO) with SQL
- Working with charts and graphics



- Automating repetitive tasks and processe
- Ensuring code security and protection
- Real-World Examples and Projects
- Building practical VBA projects (e.g., invoice generator, report automation)

This comprehensive outline should guide you through learning VBA and help you develop powerful automation solutions.

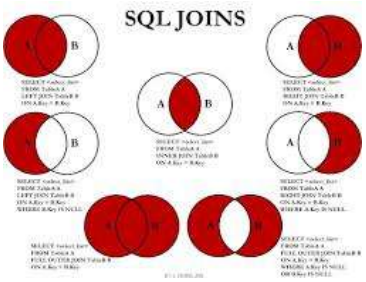
Part -5

SQL Server 2022 with Query

- Overview of SQL Server 2022
- Installation and setup
- SQL Server architecture

- Introduction to SQL Server Management Studio (SSMS)
- Data Types and Table Structures

- Querying Data
- SELECT statements
- Filtering data with WHERE clause



- Using JOINs to combine tables
- Advanced Querying Techniques
- Subqueries and nested queries
- Set operators (UNION, INTERSECT, EXCEPT)
- Data Manipulation and Transactions

- INSERT, UPDATE, DELETE statements
- Error handling and TRY...CATCH blocks
- User-defined functions (UDFs)

- Advanced Data Management
- Roles and permissions
- Real-World Case Studies and Best Practices

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