Data Analysis using MS Excel Duration - 20 Hours Pricing - 20,000 INR

1. Excel Fundamentals

- Getting Started with Excel: Introduction to the Excel interface and key features
- Understanding OneDrive: Leveraging cloud storage for sharing and collaboration
- Creating and Opening Workbooks: Efficient workbook creation, management, and file navigation
- Saving and Sharing Workbooks: Best practices for saving and sharing Excel files across platforms

2. Working with Cells and Sheets

- **Cell Basics**: Understanding cell structure, selection, and data entry
- Modifying Columns, Rows, and Cells: Techniques for adjusting cell size and content
- Formatting Cells: Customizing cell appearance with styles, fonts, and borders
- Understanding Number Formats: Working with different number formats (e.g., currency, percentage, date)
- Working with Multiple Worksheets: Managing and navigating multiple sheets in a workbook
- Using Find & Replace: Streamlining data updates and corrections
- Page Layout and Printing: Configuring document layout for optimal printing and presentation

3. Formulas and Functions

- Introduction to Formulas: Basics of formula creation for calculations
- **Creating Complex Formulas**: Combining multiple functions and operators to build advanced formulas
- Cell Referencing: Understanding relative, absolute, and mixed referencing in formulas
- Key Excel Functions: Utilizing common functions for data analysis

4. Working with Data

- Freezing Panes and View Options: Improving navigation and viewability within large datasets
- Sorting & Filtering: Organizing data and isolating relevant information
- Remove Duplicates: Identifying and eliminating redundant data entries
- Custom Sorting Techniques: Advanced sorting options for multi-level organization
- Groups and Subtotals: Aggregating and grouping data for summarized views
- Range vs Table Format: Understanding when to use ranges versus Excel tables
- Data Validation: Ensuring data integrity through validation rules
- Conditional Formatting: Highlighting cells based on conditions for better insights
- **Sparklines**: Using miniature charts within cells for data trends
- Quick Analysis: Leveraging Excel's Quick Analysis tool for efficient data review

5. Data Visualization Tools

- Basics of Data Visualization: Principles of visualizing data for better interpretation
- Understanding Charts: Overview of charts and selecting the appropriate type for different data
- Chart Layout and Style: Customizing chart styles and layouts for clarity
- Advanced Chart Options: Creating sophisticated chart types for deeper insights
- Basic Charts: Introduction to creating and customizing standard chart types (e.g., bar, line, pie)

6. Advanced Excel Functions

Logical Functions:

- Basic IF Statements
- Nested IF Statements
- IFS Function
- o AND & OR Functions

Lookup Functions:

- Basic VLOOKUP: Performing lookups with range and table formats
- VLOOKUP Issues: Troubleshooting common VLOOKUP errors
- Multi-Column Lookup: Using VLOOKUP with MATCH for more flexibility
- Alternatives to VLOOKUP: Leveraging INDEX & MATCH for more dynamic lookups
- Multi-Table Lookup: Combining VLOOKUP with INDIRECT for cross-table referencing

• Conditional Calculations:

- o **SUMIF/SUMIFS**: Conditional summation based on criteria
- o AVERAGEIF/AVERAGEIFS: Conditional averaging for subsets of data
- o **COUNTIF/COUNTIFS**: Counting data points based on conditions

Database Functions:

- o **DSUM**: Summing values from a database based on specific conditions
- o **DAVERAGE**: Averaging values from a database
- DCOUNT: Counting entries in a database

Text Functions:

- o **CONCATENATE, TEXTJOIN, CONCAT**: Combining text values
- o MID, LEFT, RIGHT: Extracting substrings from text
- LEN: Calculating the length of text strings
- EXACT: Comparing text values for exact matches
- Text Formatting: Using DOLLAR, LOWER, PROPER, UPPER, TRIM for text manipulation

• Date & Time Functions:

- o DATE, NOW, TODAY: Working with current date and time
- DAY, MONTH, YEAR: Extracting specific components of a date
- WEEKNUM, ISOWEEKNUM, WEEKDAY: Week-related functions for date analysis
- EDATE, EOMONTH: Calculating dates in the future or past based on intervals
- o WORKDAY, WORKDAY.INTL: Calculating workdays excluding holidays
- NETWORKDAYS, NETWORKDAYS.INTL: Calculating the number of workdays between two dates
- o YEARFRAC: Calculating fractional years between two dates

7. Reporting Tools

Pivot Tables:

- Basic Pivot Tables: Introduction to creating and using pivot tables for summarizing data
- Pivot Table Areas: Understanding the four core areas—Filter, Row, Column, and Values
- o Slicers: Adding interactive slicers for dynamic filtering in pivot tables
- Sorting and Filtering in Pivot Tables: Techniques for organizing and refining pivot table data
- Analyzing Pivot Tables: Using the Analyze tab for additional options and customization
- o Value Field Settings: Adjusting settings to customize calculations in pivot tables
- o **Updating and Deleting Pivot Tables**: Refreshing and modifying pivot table data