ARTTIFAI TECH

ADVANCED EXCEL

AIM:

To develop an interactive and automated Excel dashboard that analyzes, visualizes, and summarizes data efficiently using advanced Excel techniques like Pivot Tables, Power Query, and VBA.

OBJECTIVES:

✔ Data Cleaning & Transformation - Use Power Query to clean raw data.

✔ Data Analysis - Implement Pivot Tables, conditional formatting, and formulas.

✔ Data Visualization - Create dynamic charts and graphs.

✔ User Interactivity - Add slicers, dropdowns, and filters.

✔ Automation (Optional) - Use VBA macros to refresh data and export reports.

✔ Documentation - Provide a user guide explaining the dashboard functionalities.

EXPECTED OUTPUT:

- ✓ A fully functional Excel Dashboard.
- ✓ Cleaned and structured dataset.
- ✓ Pivot Tables summarizing key metrics.
- ✓ Interactive charts and graphs.
- ✓ Conditional formatting for visual impact.
- ✓ User-friendly dropdowns and slicers.
- ✓ (Optional) Macros for automation.

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SAMPLE OUTPUT:

An Excel dashboard containing:

- ✓ **Sales Performance Chart - A line graph showing sales growth over time.**

- ✓ **Top 5 Performing Employees - A bar chart ranking employees.**

- ✓ **Region-wise Sales Summary - A table displaying total sales by region.**

- ✓ **KPI Indicators - Highlighting key metrics like total sales and profit %.**

- ✓ **Interactive Filters - Dropdown lists for selecting data dynamically.**

- ✓ **Automated Report Generation (Optional) - A button to refresh data.**

NOTE:

- The completed project must be uploaded to the student's own GitHub repository.

- The GitHub repository must be public for evaluation purposes.

- The repository link should be submitted via the Google Form:

  https://forms.gle/tNFMkX5wt343vpCo7