

## Part 1: Beginner Level — (The Visual Creator)

*Focus: Data cleaning, analysis, and visualization — mastering the foundations of the data science workflow.*

### Task 1: Crafting the First Cut (Basic Editing Workflow)

- **The "Why":** Before building models, we need to understand the data. EDA is the cornerstone of all data-driven projects — helping identify trends, correlations, and data quality issues.
- **Description:** Perform an in-depth **Exploratory Data Analysis (EDA)** on GlobalMart's customer purchase dataset.
- **Step-by-Step Guide:**
  1. **Load & Inspect Data:** Import the dataset (`globalmart_sales.csv`). Check for missing values, data types, and outliers.
  2. **Clean the Data:** Handle missing values, duplicates, and inconsistent formatting.
  3. **Analyze & Visualize:**
    - Identify top-selling products, cities, and customer demographics.
    - Create visualizations (histograms, box plots, heatmaps) using Matplotlib and Seaborn.
  4. **Insights Report:** Write a short report summarizing your key findings and trends.
- **Suggested Tools:** Python, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook.
- **Expected Outcome:** A notebook showing clean data, visualizations, and insights about GlobalMart's customers and sales trends.