# Microproject 12: Excel vs Python Analysis

**Objective:** Compare the analysis process of the same dataset in Excel and Python.

**Dataset:** sales\_category.csv – The dataset lists product categories with sales amounts.

**Steps:** 1. Use Excel to calculate total sales by category and create a bar chart. 2. Use Python (pandas & Matplotlib) to perform the same analysis and create a similar chart. 3. Compare the steps, time taken, and visual appearance of the Excel and Python outputs. 4. Document any benefits or challenges encountered in both tools. 5. Summarize your comparison in a short report.

**Expected Output:** Analysis files from both Excel and Python plus a comparison report.

**Metadata:** Tools: Excel and Python; Duration: 2 weeks; Skills: Tool Comparison & Analysis (CO3, CO5).