USA Data Job Analysis using Python

🔍 Project Purpose

This analysis was inspired by my curiosity to better understand the evolving job landscape for data analysts. By leveraging real-world data and Python tools, I've answered key questions that matter most to anyone navigating this career path, such as:
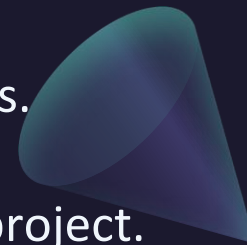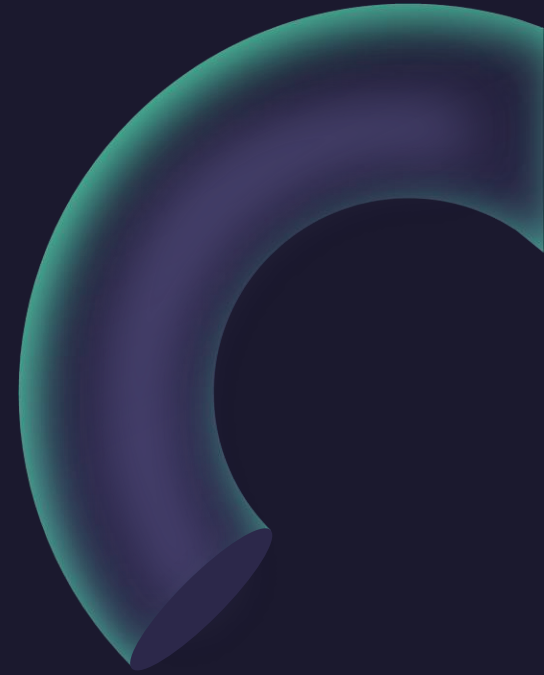
- Which skills are most in demand for the top 3 data-related roles?

- How are the most requested skills trending over time?

- What is the relationship between skill demand and salary?

- Which skills are both **high-paying** and **frequently requested**?
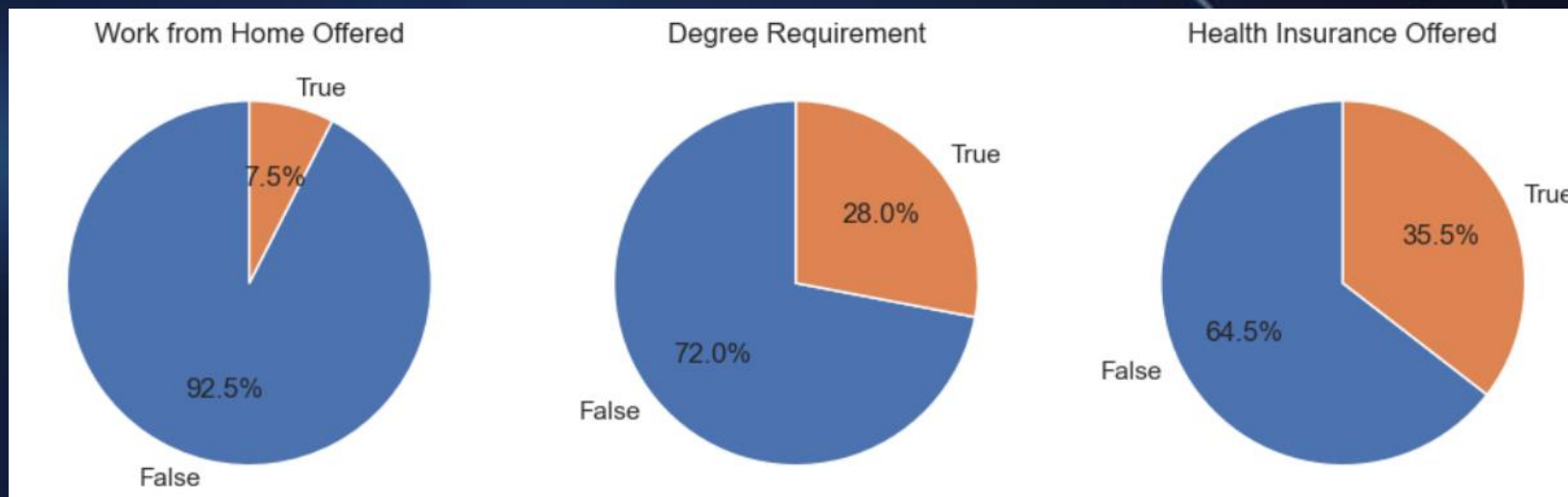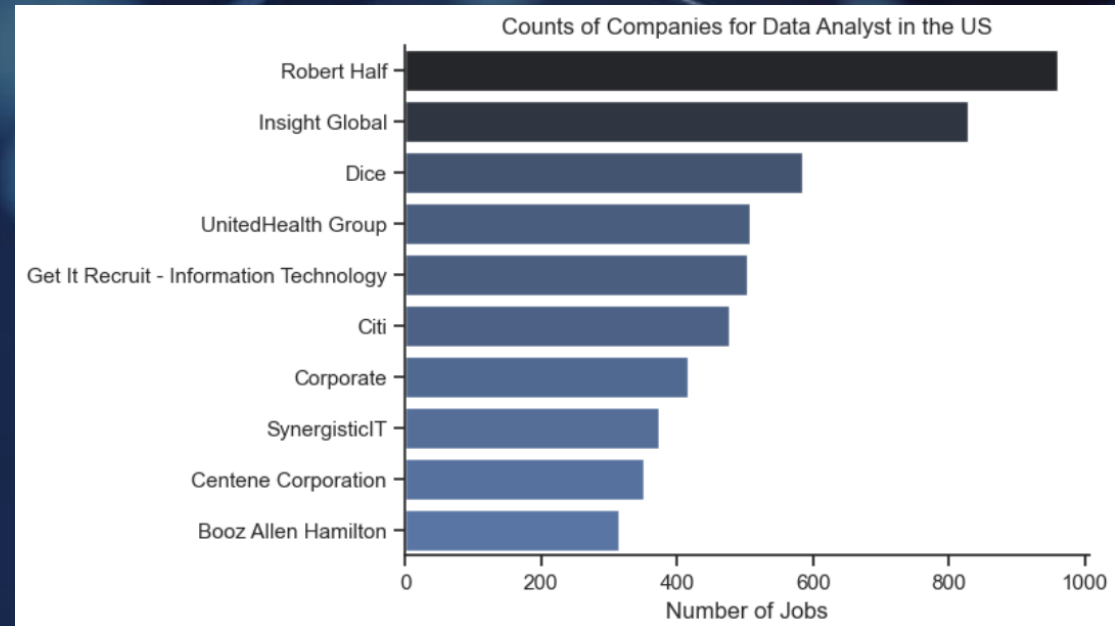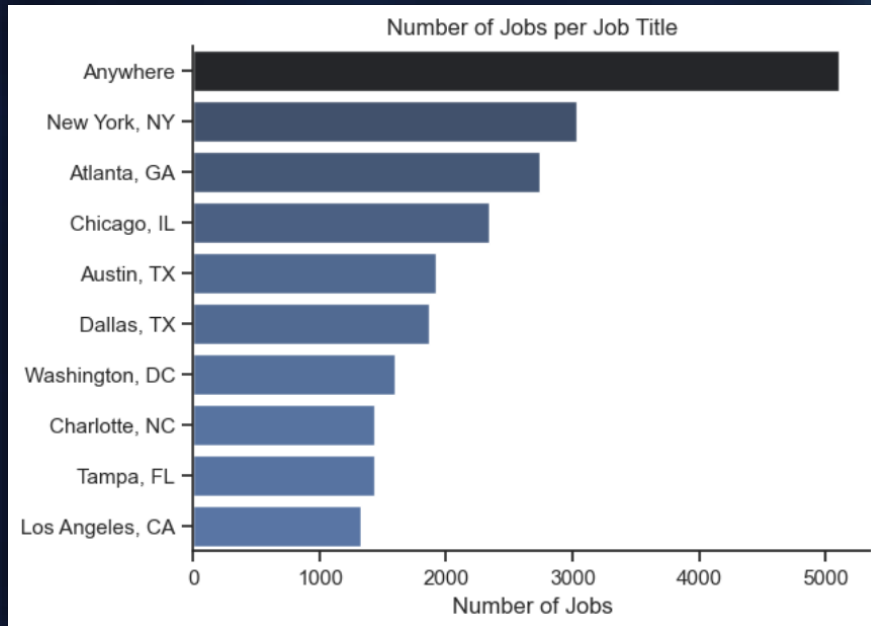
🛠️ Tools & Technologies Used

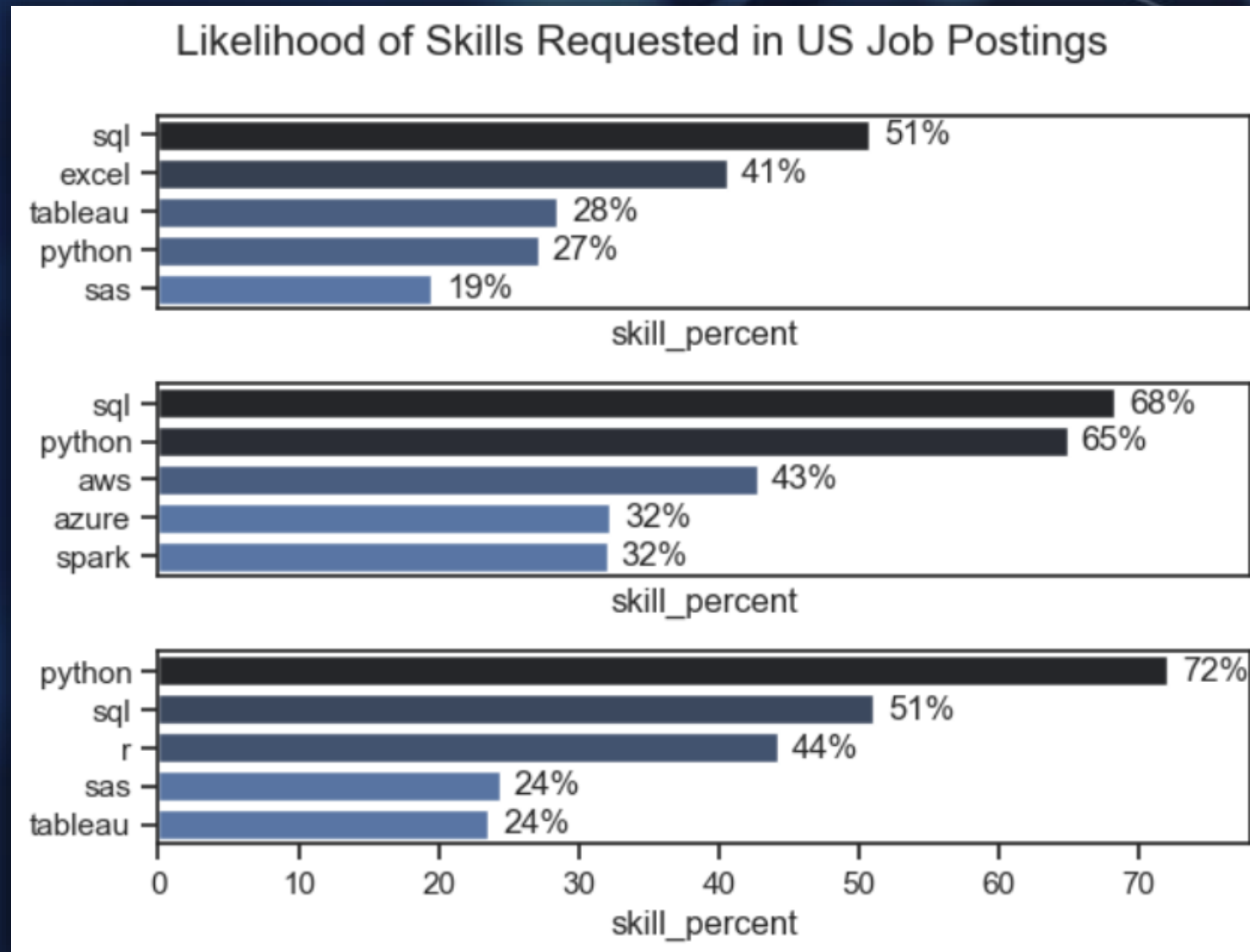To conduct this analysis, I utilized the following tools and technologies:

- **Python** — the core programming language for data processing and visualization.

- **Pandas** — used for data cleaning, transformation, and exploration.

- **Matplotlib** — for basic charting and visualizations.

- **Seaborn** — to build more sophisticated and visually appealing plots.

- **Jupyter Notebook** — to combine live code with visual output and markdown commentary.

- **Visual Studio Code** — my preferred IDE for running and testing Python scripts.

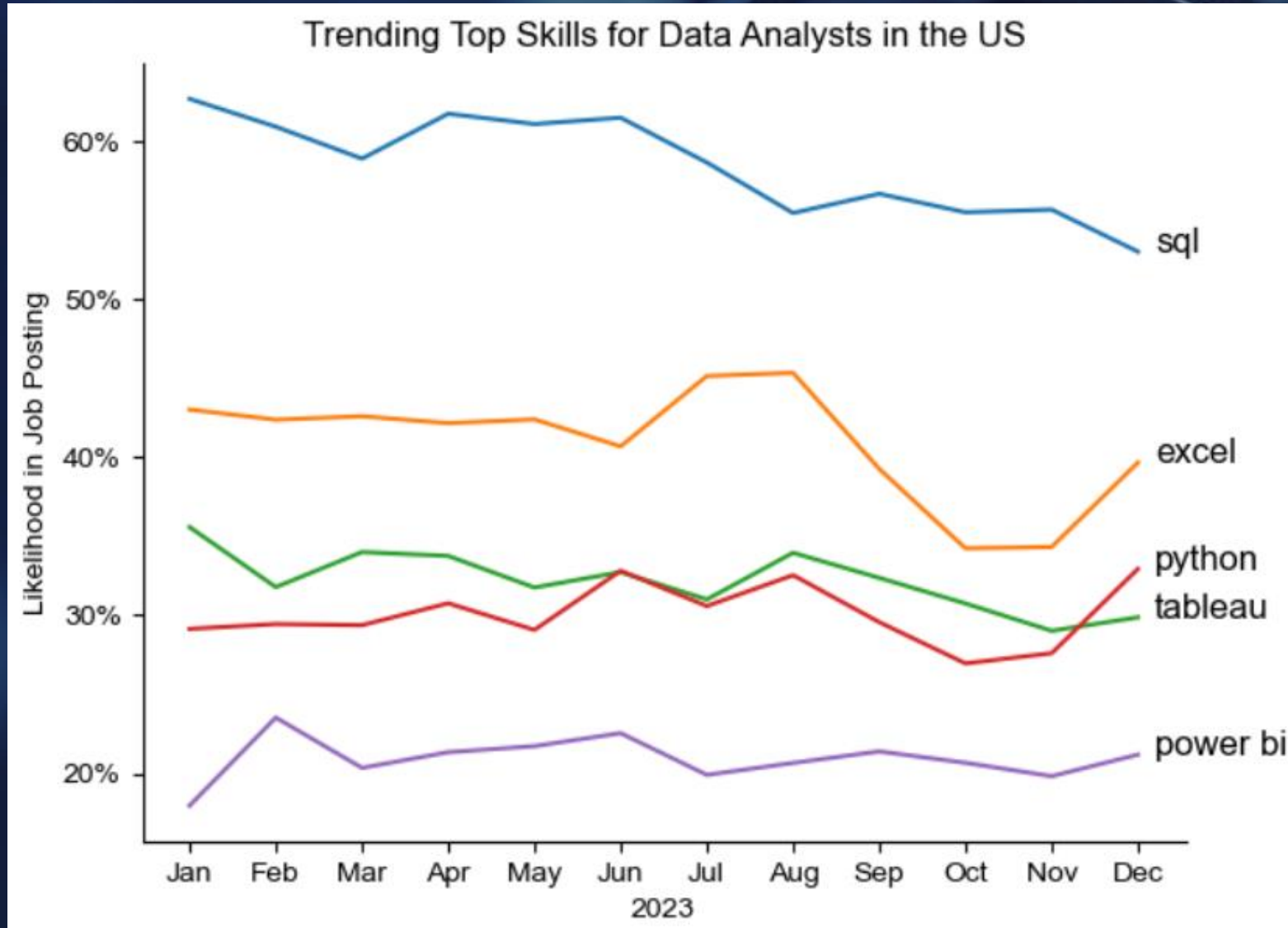- **Git & GitHub** — for version control, collaboration, and showcasing the final project.
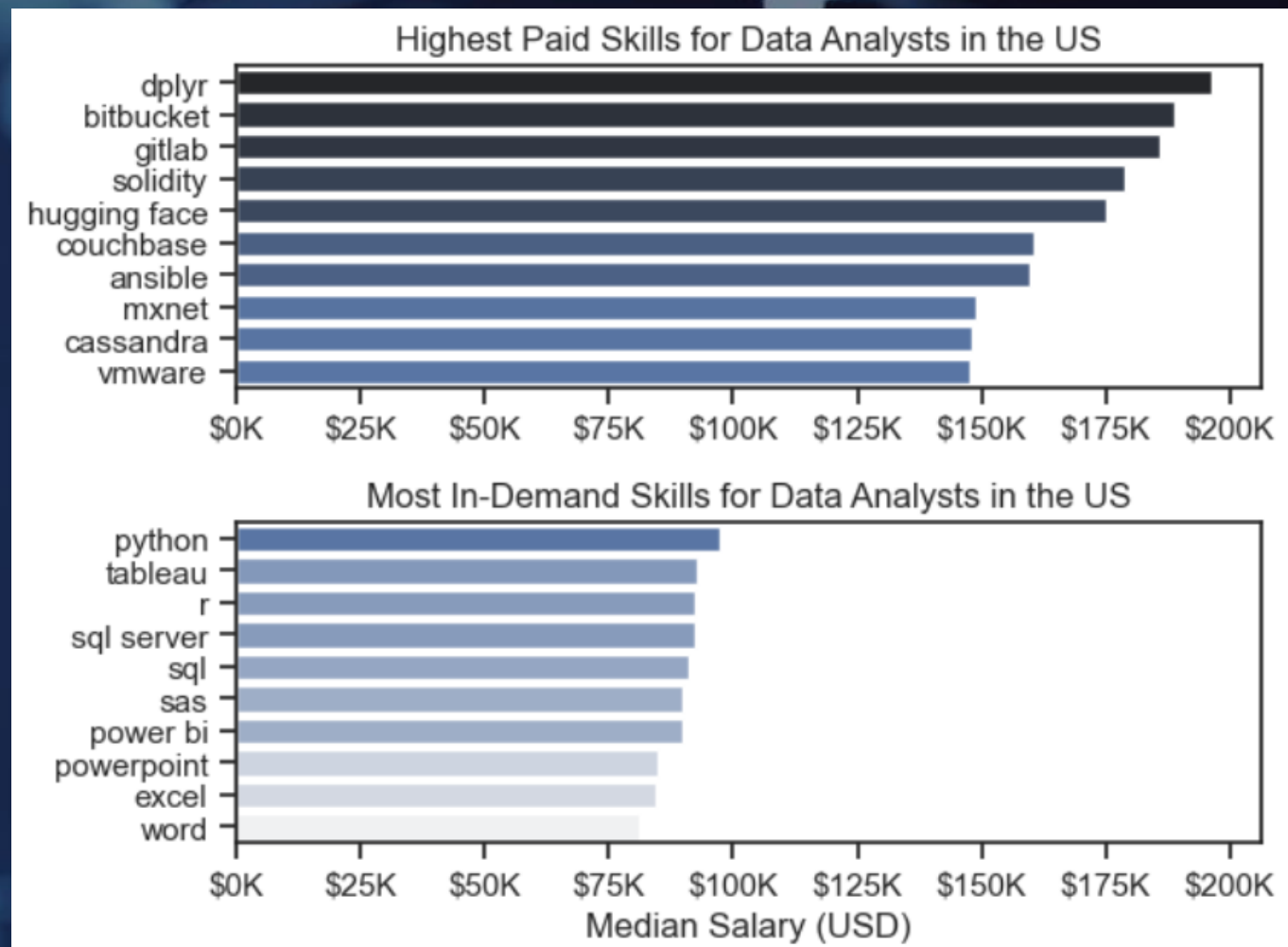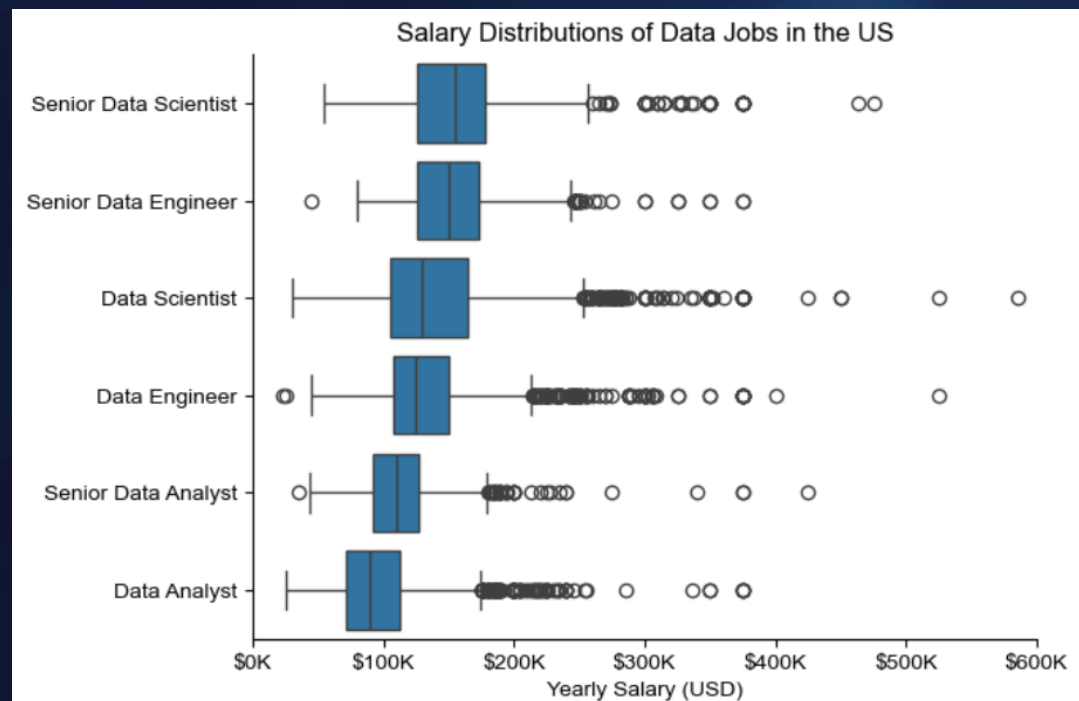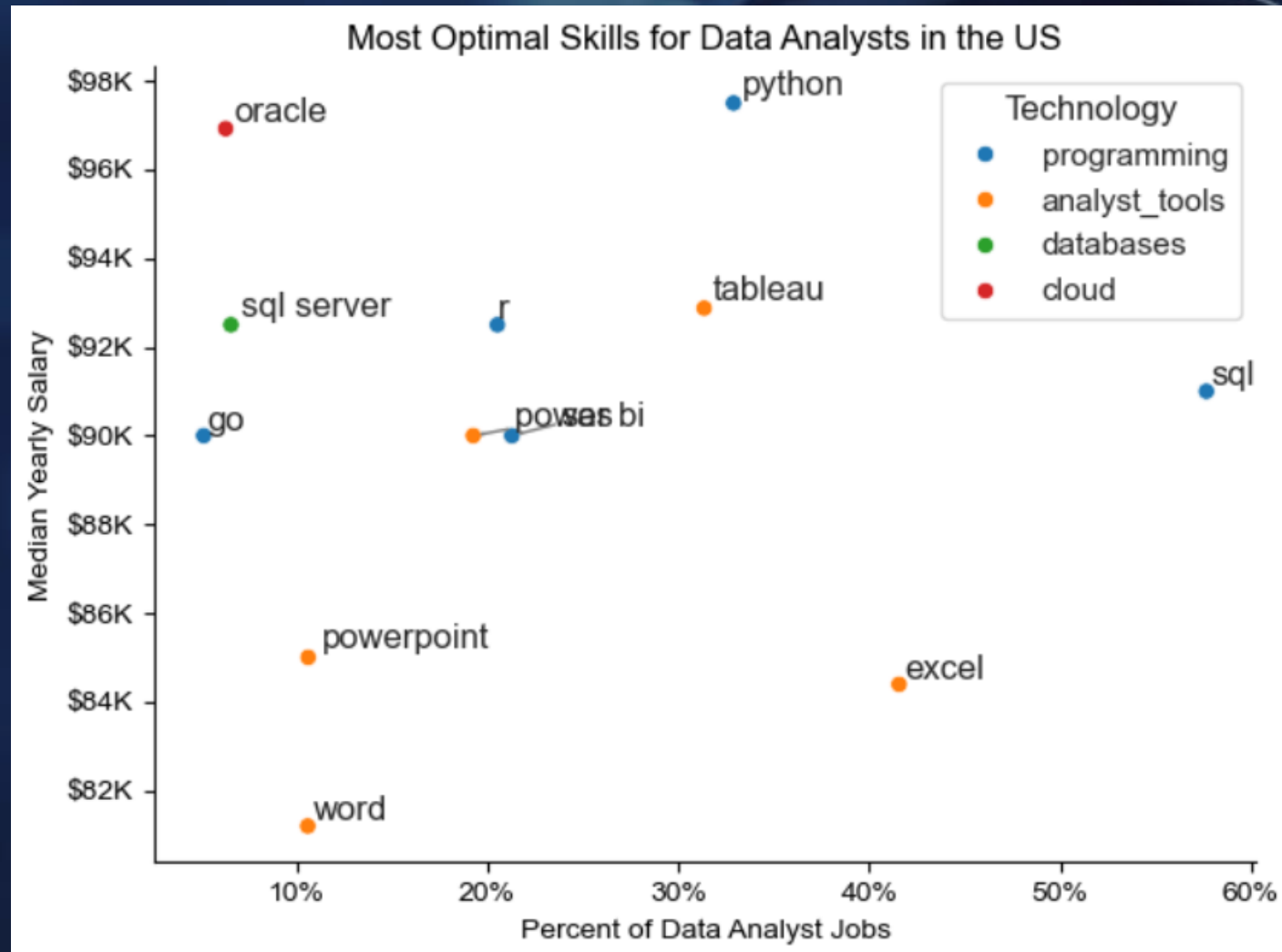
Exploratory Data Analysis

Skills Requirement

Likelihood of Skills Requested in US Job Postings

Data Analysts Top Skills Trend

Trending Top Skills for Data Analysts in the US

Salary Analysis

Optimal Skills

Most Optimal Skills for Data Analysts in the US

Thank you

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