**Roundtable Data Analytics Guild**

**Task-4  
Task: Data Analysis and Visualization with MatPlotLib and Pandas**

**Objective:** Perform basic data visualization and analysis on the given dataset using MatPlotLib and Pandas. The dataset contains Amazon order information, including details such as rating and discount on products.

**Tasks to be completed:**

1. **Data Loading, Exploration, and Cleaning:**
   * Follow the instructions as in the last task to load, clean, and explore data. Remember that these steps should always be the first actions whenever you start data analysis on a large dataset.
2. **Data Analysis:**
   * Answer the following questions using NumPy and Pandas:
     + How do discounts affect review ratings?
     + How does the average discount percentage vary across categories?
     + (Slightly advanced) What are the most popular product keywords?
3. **Data Visualization:**
   * Create visualizations (e.g. bar charts, scatter plots, correlation plots) to better understand relationships within the data.
   * Apply the data analyses in the last step in creating meaningful visualisations.
   * Try to find trends in the data.

**Submission Deadline:** 23rd March 2024.

**Submission Format:** Submit a Jupyter Notebook (.ipynb) containing your code, analysis, and visualizations (if any). Ensure that the notebook is well-commented and includes explanations of the steps taken.