Querying CSVs and Plot Graphs with LLMs

About the Company:

TensorGo Technologies is an enterprise-grade low code PaaS company for computer vision products. The platform enables users to build the most complex ML/DL applications in an easier manner by integrating our APIs. We custom build State-Of-The-Art neural networks to solve the most challenging problems in the world. We are shaping a smarter tomorrow through our deep learning, computer vision-powered products.

Our fundamental goal is to help companies scale up their businesses, improve their processes, bring down costs and enhance their customer engagement most efficiently. With our powerful and enterprise-ready solutions years ahead in the game, we make the future happen at TensorGo.

Gartner Inc. has recognized TensorGo as a Cool Vendor in The **Cool Vendor in AI for Computer Vision - 2022**. We also won the accolade for the **Best Overall Pitch** in the prestigious **Oracle APAC Startup Idol 2022.** Visit us at: https://tensorgo.com for more information. The TensorGo team wishes you Good Luck!

Objective:

To develop an application that can perform statistical analysis of CSV files using the Prompt and Llama-2 model, and generate plots based on the results.

Assignment:

Develop an application that can perform statistical analysis of CSV files using the Prompt and LLM model, and generate plots based on the results. The application should be able to:

- Read and parse CSV files
- Perform basic statistical analysis on the data, such as calculating the mean, median, mode, standard deviation, and correlation coefficient
- Generate plots of the data, such as histograms, scatter plots, and line plots etc.,
- Answer questions about the data in a comprehensive and informative way

Requirements:

The application should be developed using the following technologies. Feel free to use any method.

- Python, Prompt
- Any LLM
- Matplotlib
- Pandas

Deliverables:

- The deliverables for this project include:
- A working application that can perform statistical analysis of CSV files and generate plots
- A demonstration of the application in action
- A report that describes the design and implementation of the application

Timeline:

The duration to submit the assignment is 3 days, can be extended to 5 days on email communication

Evaluation:

- The project will be evaluated based on the following criteria:
- The accuracy of the statistical analysis performed by the application
- The quality of the plots generated by the application
- The ability of the application to answer questions about the data in a comprehensive and informative way