CARE YOUR CAR

The Streamlit app script provided is designed to analyze car sales conversations, extracting key information and visualizing data. The script includes the following key components:

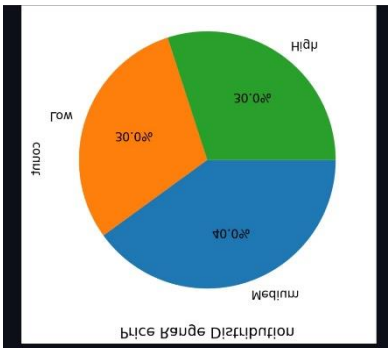
- Dependencies: It utilizes libraries like streamlit, nltk, pandas, matplotlib, and PyMuPDF, along with the transformers library for model processing.
- System Prompt: It defines a default system prompt to guide the model in extracting details about customer requirements, company policies, and customer objections from the conversation.

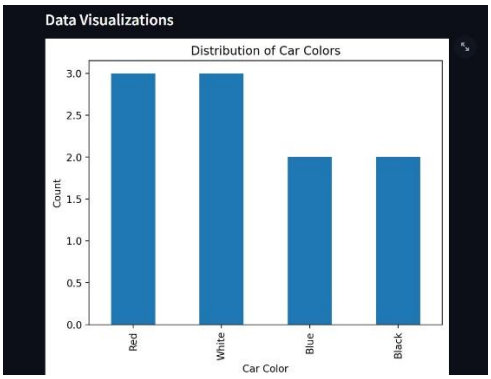
Functions:

- get_prompt(): Constructs the prompt for the model based on the given instruction and system prompt.
- generate(): Handles the generation of model output, measures performance, and handles errors.
- filter_valid_data(): Filters out invalid or empty values from the data.
- analyze_sentiment(): Analyzes the sentiment of the text using VADER sentiment analysis.

- extract_information(): Extracts and parses JSON information from the model's output.

- create_bar_chart(): Creates bar charts for data visualization.





- aggregate_data(): Aggregates data for visualization, including color distribution, price ranges, car types, and objections.
- extract_text_from_pdf(): Extracts text from PDF files for processing.

- ✓ Model Loading: Uses AutoTokenizer and AutoModelForCausalLM from the transformers library to load a pre-trained model for text generation.
- ✓ Streamlit UI: Provides a user interface to upload conversation files, extract information, view results, and download JSON files. It also performs sentiment analysis and displays visualizations based on the aggregated data.