Assignment: Sentiment Analysis on Call Transcripts

Objective: Create an application for calculating sentiment analysis on call transcripts. Users will upload transcripts through a Streamlit-based UI, and the backend will handle processing using Python Flask & sentiment analysis should be calculated based on the algorithm. Deploy the app and provide the GitHub repository link.

Sales Transcript File:  transcripts (8).zip

Requirements:

1. **Streamlit UI**:
   - Allow users to upload call transcript files (text files).
   - Display the uploaded transcripts.
   - Show the sentiment analysis results.
2. **Backend (Flask)**:
   - Handle file uploads and save them to a server directory.
   - Perform sentiment analysis on the transcripts.
   - Return the sentiment analysis results to the UI.
3. **Sentiment Analysis**:
   - Implement a sentiment analysis model using a suitable models, would love to see how we can add a layer of thinking on existing pretrained models
   - Analyze the sentiment of each transcript and return results such as positive, negative, or neutral sentiment scores with exact scores.
4. **Deployment**:
   - Deploy the application on vercel.
   - Provide a live demo link.
5. **Version Control**:
   - Use Git for version control.
   - Push the project to a GitHub repository.

Deliverables:

1. **GitHub Repository Link**: Share the link to your GitHub repository.
2. **Deployed Application Link**: Share the link to your deployed application.

Bonus Points:

- Implement additional features like sentiment visualization (e.g., pie charts, bar graphs).
- Add user authentication for secure access to the application.

Evaluation Criteria:

- Successful deployment & fully functional application : 5 Marks
- Code quality and organization: 5 Marks

- Clarity of documentation: 5 Marks
- Sentiment analysis accuracy: 15 Marks
- Timely Submission: 10 Marks