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PS ID : SIH-25035

Problem Statement : Sentiment analysis of comments received through E-consultation module.

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Name of the Project	Sentiment analysis of comments received through E-consultation module
Objective/Vision	Reducing the effort of the end user in analysing a high volume of comments.
User of the system	Professionals, Institutions and Industry Representatives
Functional Requirements	• Preprocessed data • Sentiment Analysis • Summarization • WordCloud • ML for for Sentiment Analysis and Summarization
Non Functional Requirements	Performance, Scalability, Security
Optional Features	Analysis of data, overall analysis and sentiment wise analysis
UI Priorities	Clear and easy navigatable UI
Reports	Report
Other important issues	Analyzing Sentiments of comments on basis of sentiment and proper summarization.
Team size(Maximum)	4
Technologies to be used	• Python • NLP Libraries : NLTK , spaCy,Hugging face transformers • BERT/RoBERTa for Sentiment Analysis • T5/BART for Summarization • WordCloud,Matplotlib, Seaborn for Visualization • Streamlit/Flask for Deployment

Tools to be used	Visual Studio,Github
Final Deliverables	The solution should considerably reduce the effort of the end user in analysing a high volume of comments. It should be able to clearly identify the sentiments of comments individually as well as broadly overall.

Signature of Guide