PROJECT ROADMAP

Project: Automated SCRUM

Team Name: BrainWave

Date 17.01.2024

Problem Statement

The objective of this project is to develop an automated Scrum platform integrating advanced Language Models (LLM) to track task statuses, provide real-time insights into code status, automate Scrum meeting summarizations, and enable efficient workload tracking.

Target Audience

Define who will benefit from your solution

Software development teams, project managers, and organizations utilizing Scrum methodology for their project management processes, IT Companies

Value Propositions

What is the value added by your project?

- Improved customer understanding: accurately identify sentiment in customer tweets to tailor responses and address concerns effectively.
- Enhanced brand reputation: proactive outreach to dissatisfied customers and prevent negative impact on brand image.
- Actionable insights: analyze trends in customer sentiment over time to improve products, services, and marketing strategies.

AI Approach

Briefly describe the chosen AI methods or models and their role in the solution

- Natural Language Processing (NLP): Preprocess and analyze SCRUM meetings to extract task status of each of the project members.
- Machine Learning: Fine-tune LLMs to infer the status of completion of code based on the difference in consecutive commits in Github. .
- Deep Learning: Use deep learning for voice to text models for effective summarization of the meeting conversation .

Technical Stack

Specify the programming languages, frameworks, and tools used for development.

- Web Development Frameworks : React js , Django
- Programming languages: Python
- NLP libraries: NLTK, TextBlob
- Machine learning frameworks: TensorFlow, scikit-learn , PyTorch , HuggingFace Transformers
- Cloud platforms for deployment

Data and Resources

Describe the data utilized and any additional resources needed (e.g., APIs, cloud platforms).

- Publicly available Twitter datasets containing labeled tweets with emotional annotations.
- Access to a Twitter API for real-time tweet collection

Team

Introduce team members, their skills, and their assigned roles in the project.

- Riddhi Kulkarni (Team Lead / Frontend) : Focus on building user-friendly interfaces
- Atharva Date (Lead Developer): Expertise in NLP and machine learning
- Aman Upganlawar (Data Scientist): Experience in data exploration and model training
- Abhay Shanbhag (ML Developer): Expertise in ML
- Pritika Rohera (Backend Developer) : Experience in handling databases
- Sattwik Sahu (UI/UX lead) : Focus on designing a user-friendly interface for visualizing sentiment insight

Success Criteria

Define what constitutes a successful outcome for your project.

- Achieve an accuracy of over 85% in displaying the team status on the required project .
- Have a functioning interface with a user friendly User interface and User experience