SOFTWARE ENGINEERING PROJECT IDEA -TEAM 8

**Introduction :**

With the rise of social media platforms, millions of people are now openly sharing their thoughts, emotions, moods, and struggles with mental health online. This provides a unique opportunity to detect depressive symptoms unobtrusively. Instead of relying on traditional surveys and questionnaires, this website focuses on identifying depressive behaviors from posts.

The approach involves analysing a diverse set of features, including individual-level demographics, obtained from various sources such as text, visuals, and user interactions on social media. By developing a website using NLP(National Language Processing) to combine these heterogeneous features, the website significantly improves the accuracy of identifying depressed individuals on social media.

**Idea and Features :**

1. Data Collection and Processing:

Develop a data collection module to retrieve publicly available posts from Twitter.

Implement natural language processing (NLP) techniques to analyze textual content, including sentiment analysis and linguistic patterns.

1. Depressive Symptom Detection:

Build machine learning models to detect signs of depressive symptoms based on textual content.

Explore the relationship between linguistic patterns, sentiment, and the likelihood of depression.

Develop an interpretable feature set that includes language style, sentiment, image aesthetics, and sociability indicators.

1. Interventions:

Offer recommendations for mental health support based on the severity of detected symptoms.

1. User Privacy and Ethical Considerations:

Prioritize user privacy and data security throughout the project.

Implement strict ethical guidelines and obtain informed consent for data usage.

Target Users:

Individuals using social media platforms, who may be at risk of depression.

People focused on public health and mental health interventions.

Expected Outcomes:

* An innovative software platform capable of detecting depressive symptoms in social media users.
* Individual mental health management and emotional development.
* Improved access to mental health resources and support for individuals in need.