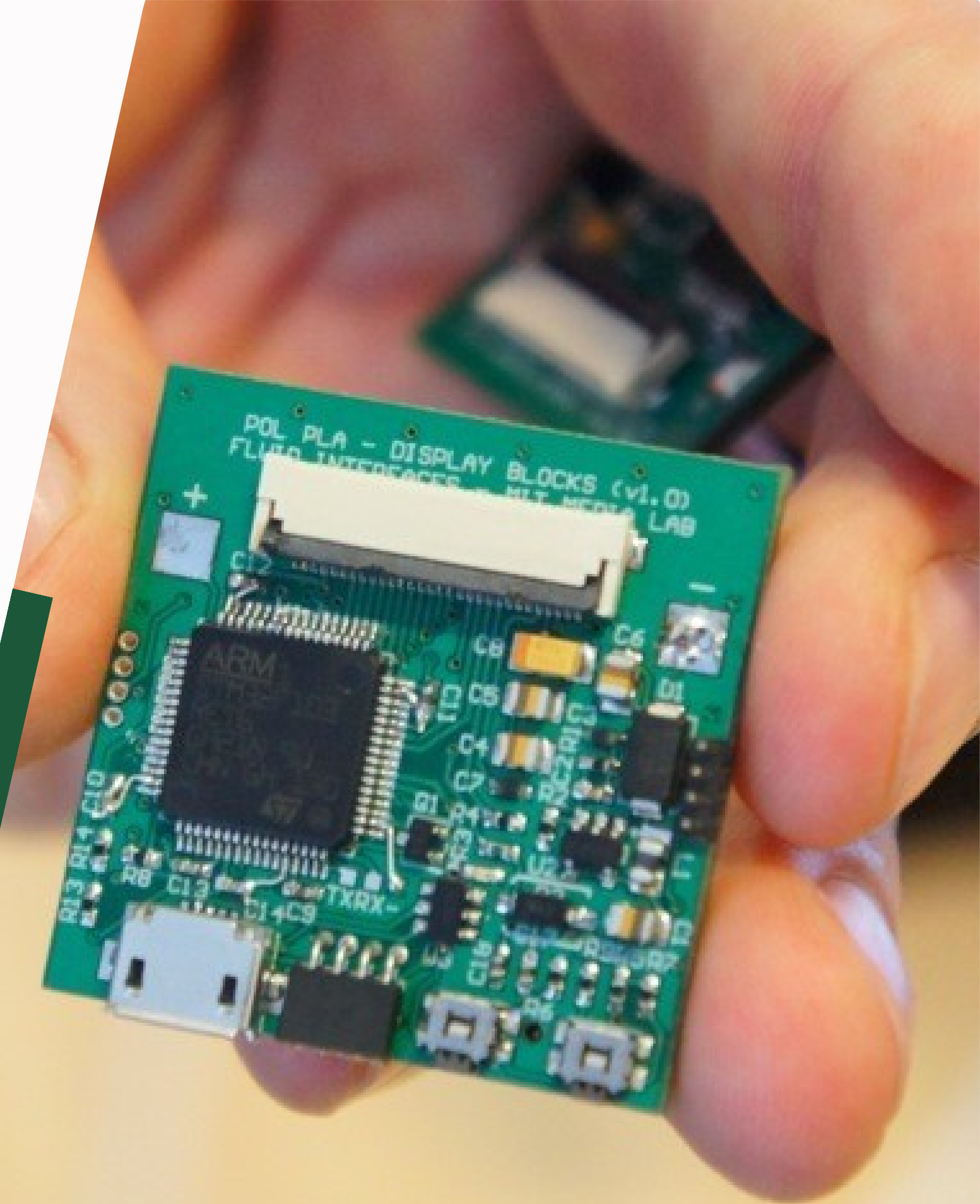


DEPRESSION DETECTION

TEAM NAME : CANDIESXO

TEAM MEMBERS:

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Problem Statement

Depression is one of the most common health issues that people experience, prompting some to commit suicide without even realizing it. Social media platforms are enriched with emotional material and can be used for a variety of applications such as opinion mining, emotion mining, and sentiment analysis.

To analyze and detect depression using their personal habits and social media data instagram feed by using machine learning techniques.



Solution

The Problem solution focuses on the social media platforms of user such as Instagram, Twitter, Facebook which consists of rich amounts of data to perform psychological classification tasks.

This model aims to develop a depression detection model using demographic characteristics and sentiment analysis from user's post.

01

Data collection and Preparation : The first step involves collecting data from user's Instagram feed which includes posts, comments, and other user-generated content.

Features Extraction : The patterns related to depression are extracted from the data. Psychological analysis is all about extracting psychological data from textual data.

02

03

Model Selection: Supervised machine learning is used in this model to select and train the Instagram data. The classification techniques such as LSTM—for depression detection in post, decision tree, k-Nearest Neighbor, Support Vector Machine and logistic regression are used.

Model training & Measurement : The preprocessed data is split into training and testing data sets. The training set is used to train the selected machine learning model on the extracted features.

04



FEATURES

Ability to assess the user's risk of developing depression, the application can provide personalized recommendations and interventions.

provides resources and links to mental health professionals, support groups, and helplines for users.

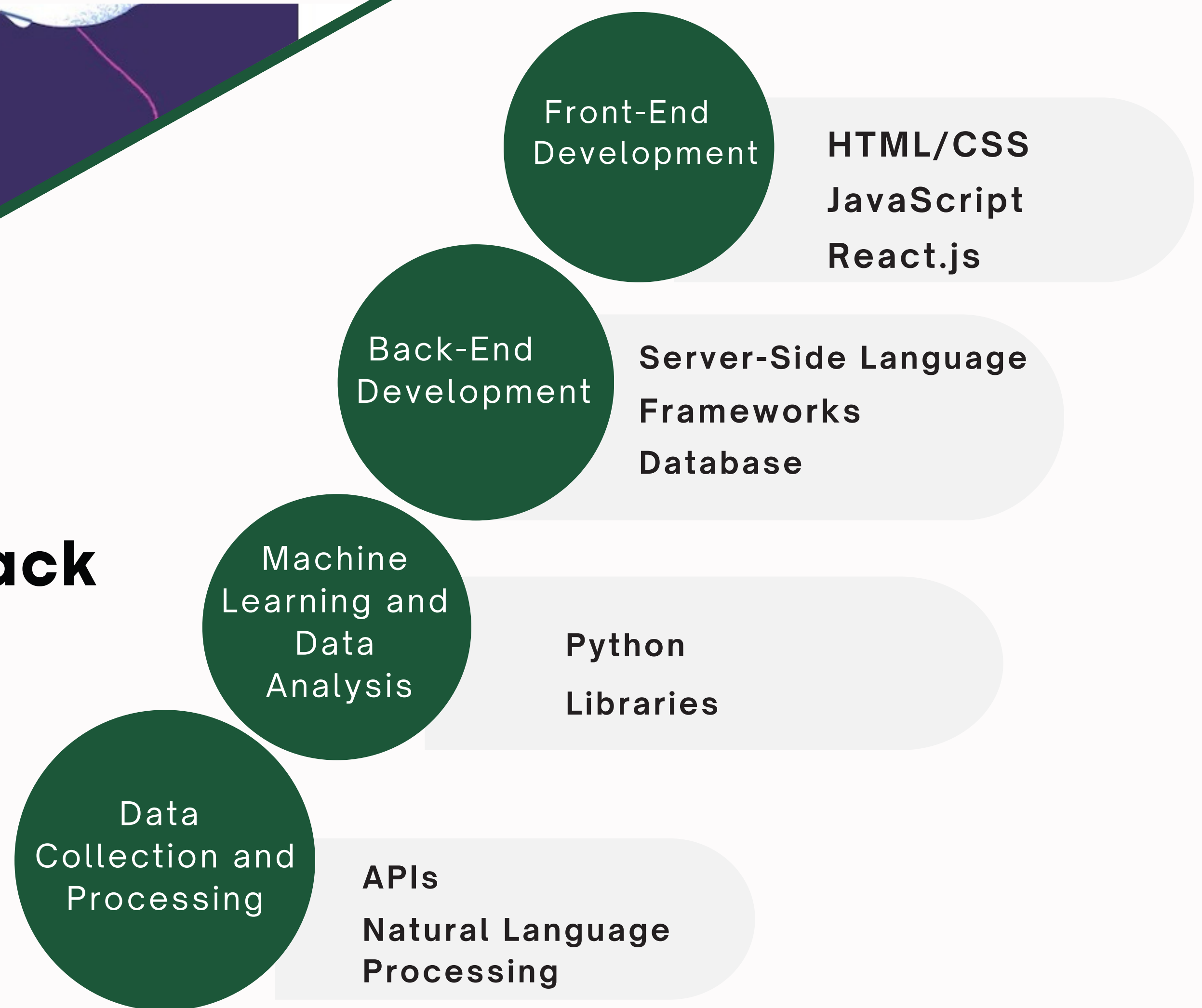
Integrate with wearable devices such as fitness trackers or smartwatches to provide information.

Adhere to strict privacy policies and employ encryption techniques to safeguard user data.



Technology stack

These are the stacks that will be used to bring our concept to life.



Future Scope

01 Improved Accuracy: Future research and development efforts can focus on enhancing the accuracy of depression detection systems. This includes refining machine learning models, exploring new data sources, and incorporating more comprehensive and diverse datasets to train the models. Advanced algorithms and techniques, such as deep learning and ensemble methods, can be employed to achieve higher precision and recall rates.

02 Real-time Monitoring: Depression detection systems can be expanded to give real-time monitoring and support. The system may continuously collect data on numerous physiological and behavioral markers by using wearable devices, smartphone apps, or other linked devices. Individuals at risk of or already suffering from depression can benefit from real-time monitoring, which allows for timely intervention and tailored treatment programs.

03. Personalized Interventions

04. Integration with Telemedicine

05. Natural Language Processing Advances

06. Ethical Considerations

