



Project Status report

Name:	Jasmeet Singh
Community (UN SD goal):	Individual participation/Serving a context Community: Individuals seeking to understand and manage their own emotions for personal well-being. Family members and friends wanting to support their loved ones in emotional struggles.
	UN SGDs: 3 & 4
MVP #	1
Sprint cycle dates:	October 23, 2023 - November 01, 2023

Project Name	EmoDetect - Human Emotion Detector
Blurb	<p>This project aims to create a user-friendly application for accurately identifying and managing six different types of emotions: anger, fear, happiness, neutrality, sadness, and surprise. Additionally, the app offers personalized recommendations, including meditation practices and nearby dining options, to help users enhance their emotional well-being.</p> <p>UN SDG(s): 3 & 4</p>
For Week Ending	November 02, 2023
Project Status	Yellow
Status Description	<p>The reason for Yellow Project Status:</p> <ul style="list-style-type: none">• Learning Flask technology is a bit time consuming than anticipated• Intensive API research for Emotion recommendations <p>Strategies for achieving Green Status:</p> <ul style="list-style-type: none">• Complete the front-end design with Flask technology.• Implement the API's in to the system to provide recommendations
Activities—During the past sprint cycle	

API Research:

- Conducted in-depth research on API's that would be suitable to provide emotion recognition based recommendations.

Back-end Development:

- Trained the AI model using the available dataset for emotion recognition
- Implemented the Haarcascade Algorithm to further identify emotions
- Set up the Conda environment with essential libraries including: openCV, Tensorflow, Deepface
- Conducted tests between Tensorflow and deepface library; found deepface to be more accurate than Tensorflow

Front-end Development:

- Downloaded the flask libraries in the Conda environment to facilitate the web application.
- File structure has been created for front-end development.



Project Issues

None

Project Changes

None

Activities—Planned for Next Week

1. Complete MVP 1
 - Finish MVP 1 in terms of improving the emotion recognition accuracy
2. Start MVP 2 and 3
 - **API Implementation for Recommendations:** Integrate and implement APIs to offer emotion-based recommendations, ensuring users receive personalized and relevant content suggestions.
 - **Front-end Web Development:**
 - **Website Design & Navigation:** Begin the development of the front-end of the website.
 - **Integration with Emotion Recognition:** merge the website's front-end with the emotion recognition system

Reflection

Do you feel "on track"?

- Yes, I do feel I'm on track. However, I'm progressing at a slightly slower pace than I anticipated. This is largely due to the learning curve associated with new technologies, such as Flask.

What progress do you particularly feel good (great) about?

- The successful training of the AI model stands out as a significant accomplishment. It indicates that I have nearly completed MVP 1.
- Additionally, I've gained understanding in Flask for front-end development. I am eager about diving deeper into the front-end and seeing it come to my vision.

What barriers (if any) do you feel is/are a current impediment to success?

- Time has been a constraint, particularly when adapting to and learning new technologies. The challenges that come with familiarizing myself with new tools and platforms have required more time than initially expected. This has been a primary barrier to advancing at my desired pace.

What help (if any) do you require to move positively forward?

- None

What questions or concerns do you have (if any)?

- None