Strategy Document

Platform Selection:

I chose LinkedIn, Resume, GitHub and Portfolio.

- ***LinkedIn:*** *LinkedIn is a vast growing professional networking system that helps my project to reach industrialists and AI experts.*
- ***Resume:*** *It helps in providing professional summary of my project to the recruiters.*
- ***Portfolio Website:*** *This will help me reach vast amount of professional AI experts and introduce me to the industrialists by giving a brief about me, my education and my projects.*
- ***GitHub:*** *Maintaining a Good README file and code in GitHub repositories help me explain the audience regarding my work and the reason behind every line I write.*

Presentation Approach:

Clarity:

"Emo-Wise" an AI driven system which is tailored to improve emotional well-being through personalized support and recommendations. Emotional well-being is an essential part of our mental health, yet many people struggle to find accessible and personalized support when needed at the most. Emo-Wise is an AI powered system which is designed to bridge the gap by offering real-time emotional assistance which is tailored to everyone's needs. It combines insights from text, voice, and facial expressions in recognizing emotions and providing actionable recommendations to improve emotional health.

- My ***Portfolio and Resume*** help me reach out more recruiters by explaining them the outline of my project.
- ***LinkedIn*** helps me in reaching AI experts and find some research interests.
- ***GitHub*** helps me in storing all the project related demos and code which allows me to reach a wider range of audience.

Impact:

At the heart of Emo-Wise are advanced technologies like collaborative filtering, natural language processing, and deep learning. These tools will allow the system to understand emotional cues with accuracy and deliver highly relevant guidance in real time. Beyond the technology, Emo-Wise prioritizes user privacy, ethical AI practices and ensuring that it works for a wide range of people. The results are promising because the system has achieved 90% accuracy in detecting emotions from text and 92% precision in facial recognition tasks.

- ***LinkedIn*** serves in a better way to show my results to a large set of people in industries.
- ***Resume*** provides a detailed view to recruiters to access and assess my technical and analytical skills.

Accessibility:

- Use of Screenshots, visual demos give a detailed perspective of the project like how and why it works.
- The ***GitHub*** README file helps people in analyzing the code and the project together.

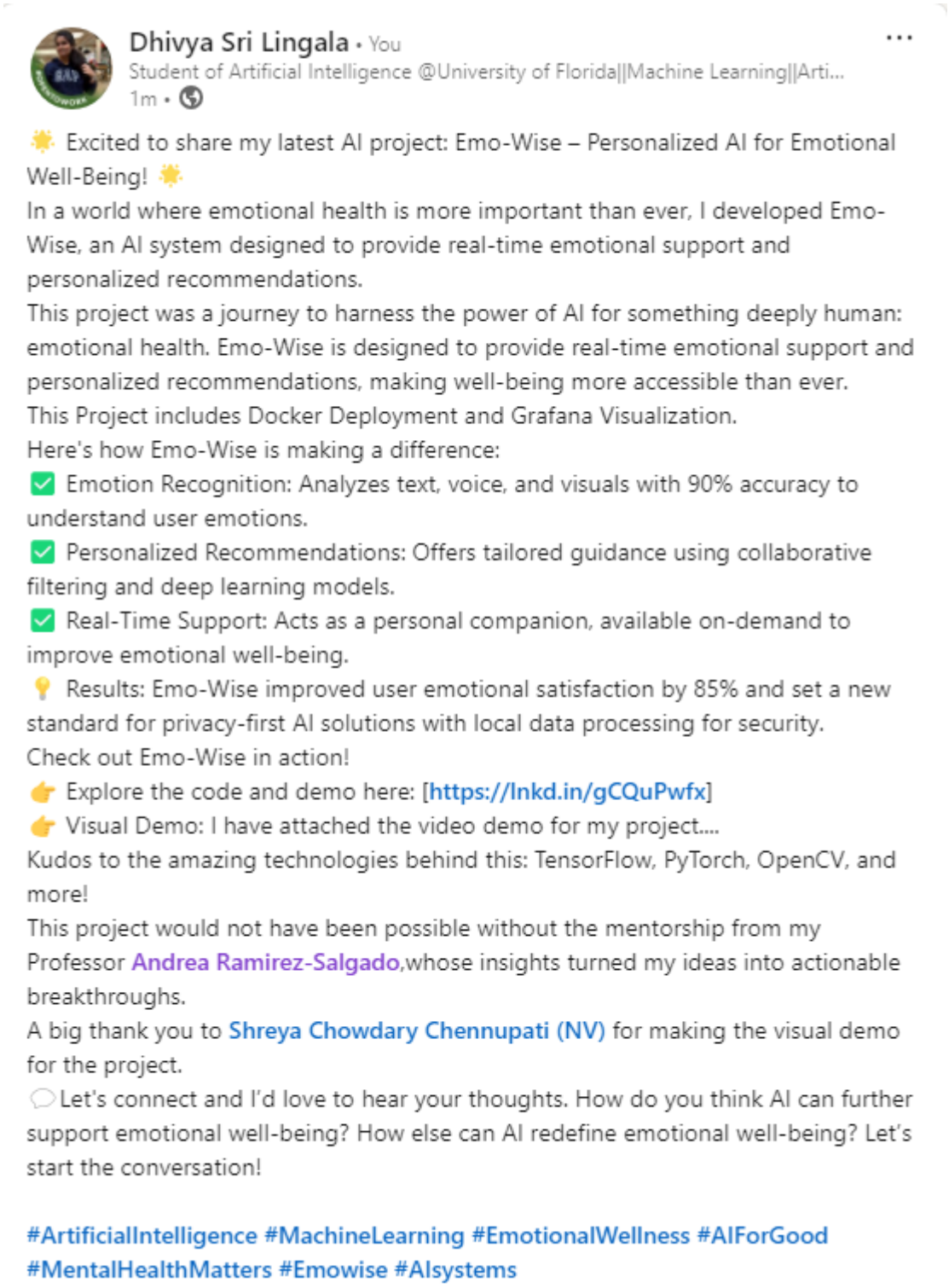
Engagement Tactics:

- Exploring the repositories helps the peers to give feedback to me by connecting professionally.
- Through LinkedIn and Portfolio, I will be able to find people with similar interest in the field of Artificial Intelligence where we can collaborate with each other and can make more high-end projects.

Visual Mockup:

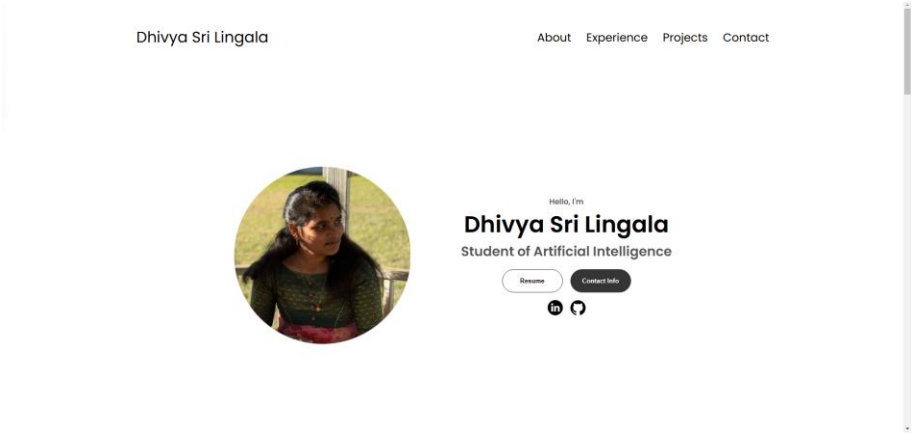
LinkedIn:

Look up on the above link and below images for the detailed view of my project



Link: https://www.linkedin.com/feed/update/urn:li:activity:7286901335227080704/

Portfolio:



In the Portfolio website of mine, the above layout will be shown for my project and by clicking on appropriate GitHub or live demo buttons they move to respective links and displays them.

I have not yet published my portfolio but will soon deploy it…

GitHub:

README

Emowise: Personalized AI for Emotional WellBeing

About the Project

At the heart of Emo-Wise are advanced technologies like collaborative filtering, natural language processing, and deep learning. These tools will allow the system in understanding emotional cues with accuracy and delivering highly relevant guidance in the real time. Beyond the technology, Emo-Wise prioritizes user privacy, ethical AI practices and ensuring that it works for a wide range of people.

Objective

Enhancing emotional wellness through real-time AI-driven support, with the following features: **Key Features:**

- **Emotional Recognition:** Analyze text, and visual inputs.
- **Personalized Recommendations:** Provide tailored activities and resources.
- **Real-Time Support:** Offer immediate emotional assistance.
- **Privacy First:** Handle sensitive data securely.

Code Implementation

In order to understand the project, you are supposed to run training file that allows you to get pickle files to save and then go to main.py file to get the final application. The pickle files are stored in the **Models** folder and jupyter notebook files are stored in **utils** folder.

Technologies

- TensorFlow, PyTorch, Flask
- NLP Libraries: NLTK, SpaCy
- Tools: Docker

Dependencies

In order to update anaconda,use the following command

```
conda update --all
```

Clone the repo

***Link*:** https://github.com/DhivyaSriLingala/EGN6216---AI-Systems-Dhivya-Sri-Lingala

Resume:

Dhivya Sri Lingala

Gainesville,Florida
lingaladhivyasri24@gmail.com DhivyaSriLingala +1 (352) 642-2496 dhivya-sri-lingala

EDUCATION

University of Florida **Florida, USA**
Masters in Artificial Intelligence Systems *May,2026*

CGPA: 3.55/4
Courses: Machine Learning, Artificial Intelligence, Computer Vision

KL University,Vijayawada **Andhra Pradesh, India**
Bachelor of Technology in Artificial Intelligence and Data Science *May,2024*

CGPA: 9.37/10.00
Courses: Natural Language Processing, Deep Learning, Data Visualization

WORK EXPERIENCE

Software Developer Intern - Areksoft Technologies Private Limited *July 2023 - November 2023*
- Innovated a custom API utilizing Google Apps Script and MERN to facilitate seamless integration of office applications, enhancing workflow efficiency and enabling real-time data synchronization for over 50 team members.
- Aligned Frontend and Machine Learning Models.

Intern - Microsoft Engage,2022 *March 2022 - May 2022*
- Created a data analytics app using Python, SQL, and machine learning (K-Means, Random Forest) to analyze automotive datasets, segment customers, and identify popular configurations and launch timelines with 82% accuracy.
- Engineered and implemented interactive dashboards that provided real-time analytics for market strategy tool is now utilized by over 10 departments, streamlining reporting processes and improving overall efficiency by 30%

SKILLS

Programming Languages: C/C++, Python, R, Java, Javascript, HTML/CSS,SQL, Bootstrap, Matlab
Frameworks: Flask, MERN Stack, Django, Streamlit, Grafana(For Data Visualization)

PROJECTS

EmoWise *Collaborative Filtering, Neural Networks*
- Orchestrated the deployment of a machine learning model for emotional intelligence, processing 5,000 daily inputs and offering context-based recommendations.
- Initiated and streamlined an automated preprocessing pipeline with Python, TensorFlow, and OpenCV, enhancing model robustness and boosting training efficiency by 70%.

Network Anomaly Detection Using Machine Learning *Neural Networks, Regression*
- Developed and deployed a machine learning model for network anomaly detection, actively identifying and mitigating abnormal patterns to enhance network security.
- This is used to illustrate the applicability of various machine learning algorithms for network anomaly detection with 82% accuracy.

Old Image Restoration Using Deep Learning *Autoencoders, Neural Networks,Image Processing*
- Generated a deep learning-based pipeline, for restoring old images using Convolutional Neural Networks (CNNs) and Generative Adversarial Networks (GANs), improving restoration quality by 80%.
- Optimized the restoration process with Python, TensorFlow, and OpenCV for noise reduction and feature restoration.

Text to Image Conversion *MERN Stack, Machine Learning Algorithms*
- Architected and Devised an AI art generator application, where user-input text prompts are transformed into visually stunning works of art.
- Optimized model accuracy from 69% to 78% by fine-tuning the underlying AI model, optimizing data preprocessing, and enhancing the backend with Node and Mongo DB and TensorFlow for real-time text-to-image generation.