Kunche Revanth

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LinkedIn | GitHub | Leetcode

Summary

Computer Science Engineering student with strong academics and practical experience in **software development and machine learning**. Skilled in **Python, Java, and web technologies**, with hands-on work using frameworks like **Django and TensorFlow**. Enthusiastic about leveraging AI to innovate web technologies, and eager to apply technical skills to build impactful solutions.

Education

Amrita Vishwa Vidyapeetham,Amritapuri, B.Tech, CSE CGPA: 8.90 — Aug 2023 – Feb 2027

Tirumala Junior College, Visakhapatnam, MPC, Percentage : 96.3% — Jun 2021 – May 2023

Skills

Programming Languages: Python, Java, C, HTML5, CSS, JavaScript

Libraries/Frameworks: Machine Learning, Deep Learning, NLP

Libraries/Frameworks: Django, TensorFlow, Numpy, Pandas, Scikit-Learn, Matpoltlib, Seaborn

Tools / Platforms: VS Code

Databases: PostgreSQL

Projects

Dementia Prediction Link

- Trained a deep learning model for classifying dementia stages using medical imaging data.
- Utilized TensorFlow and Keras for building and training the neural network model.
- Implemented sklearn for dataset splitting, label binarization, and evaluation metrics such as classification report and confusion matrix.
- Visualized model performance using Matplotlib and Seaborn
- Achieved significant accuracy improvements through hyperparameter tuning and Adam optimizer.
- Evaluated the model's effectiveness using train-test split and performance metrics.

Facial Emotion Recognition (FER) System with Real-time Detection UI Link

- Developed and evaluated deep learning models for Facial Emotion Recognition,with a custom CNN and with MobileNetV2 transfer learning.
- Implemented data augmentation and callback strategies for robust model training.
- Designed and built a real-time emotion detection web UI integrating trained models for webcam-based emotion analysis.
- Tools Used: Django, HTML, CSS, and JavaScript.

Terminal Trolly :- A CLI-Powered Shopping Cart Website Link

- Terminal Trolley is a unique shopping cart website that integrates a command-line interface (CLI) for user interactions. Instead of traditional UI elements like buttons and forms, users can navigate, search, add, and remove products using CLI commands. The product data is dynamically fetched from an API and rendered using JavaScript.
- Tools Used:HTML, CSS, JavaScript.

Screening Tool For Dementia Patients Link

- A web-based platform designed to assist dementia patients by assessing their cognitive condition.
- Patient details are collected and stored securely.

- Two dementia assessment tests: MMSE (Mini-Mental State Examination) and AMST (Abbreviated Mental State Test).Questionnaire-based tests implemented as interactive forms.
- After completion, patients receive their dementia stage results.
- Frontend: HTML, CSS, JavaScript; Backend: Django; Database: PostgreSQL (PGSQL)

Certifications

Machine Learning with Python: Foundations, LinkedIn Learning

NLP with Python for Machine Learning Essential Training, LinkedIn Learning