Kunche Revanth

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LinkedIn | GitHub | Leetcode | Portfolio

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

Technologies: Machine Learning, Deep Learning, Natural Language Processing(NLP)

Libraries/Frameworks: Django, TensorFlow, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn

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

Tools/Platforms: Visual Studio Code (VS Code)

Databases: PostgreSQL

Projects

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

- Developed and evaluated facial emotion recognition models using a custom CNN and MobileNetV2 transfer learning on the FER-2013 dataset.
- Achieved approximately 43% validation accuracy after fine-tuning and data augmentation.
- Implemented data augmentation and callbacks to enhance model robustness during training.
- Built a Django-based real-time web UI enabling webcam emotion detection with low latency.
- Utilized Python, TensorFlow, Keras, Django, HTML, CSS, and JavaScript for frontend development.

Dementia Prediction — Github

- Built and trained a deep learning model with TensorFlow and Keras to classify dementia stages from medical imaging data.
- Achieved 97% test accuracy; identified overfitting due to class imbalance and dataset limitations.
- Applied class imbalance handling techniques and proposed future enhancements such as data augmentation and model ensembling.
- Visualized performance trends, data distribution, and classification outcomes using Matplotlib and Seaborn to guide model refinement.

Terminal Trolly :- A CLI-Powered Shopping Cart Website — Link | Github

- Designed a unique shopping cart web application integrating command-line interface (CLI) commands for navigation, product search, and cart management.
- Built a Django backend to manage operations and handle API data integration.
- Integrated API to fetch and display dynamic product data in the frontend using JavaScript.
- Deployed the application on Render for live accessibility.
- Tech Stack: Django, HTML, CSS, JavaScript, Public API, Render.

Certifications

Machine Learning with Python: Foundations, LinkedIn Learning
NLP with Python for Machine Learning Essential Training, LinkedIn Learning