VARUN REDDY

+91 7013599136 | ikothareddyvarun@gmail.com |

LinkedIn | GitHub |

Anantapur, Andhra Pradesh - 515001, India

Objective

Enthusiastic and detail-oriented Computer Science and Engineering student specializing in Data Science, seeking an opportunity to apply skills in deep learning, computer vision, and synthetic data generation. Eager to contribute to impactful AI projects and grow as a researcher by solving real-world problems using innovative technologies.

Education

- **Vellore Institute of Technology** — *2021 - Present*
  MTech Integrated CSE Specialization Data Science — Vellore, Tamil Nadu, India
- **Sri Chaitanya Junior College** — *2019 - 2021*
  Intermediate — Vijayawada, Andhra Pradesh, India
- **KKR's Gowtham International School** — *2014 - 2019*
  Secondary Education — Vijayawada, Andhra Pradesh, India

Projects

- **Smart Attendance System using CNN and OpenCV**
  Tools: VS Code, Jupyter, OpenCV, Scikit-learn, Streamlit, CSV
  - Designed and implemented a real-time face recognition system to automate attendance tracking, eliminating manual entry and reducing errors.
  - Utilized convolutional neural networks (CNN) for classification, enhancing accuracy and performance in identifying individuals.
  - Technologies: Python, OpenCV, CNN, Haar Cascade Classifier, CSV.
- **Weather Prediction Model Using PyTorch**
  Tools: VPyTorch, Python, Pandas, Matplotlib, VS Code, Git
  - Built a deep learning model using Transformer architecture in PyTorch to predict weather patterns for Vellore, leveraging hourly data from the past two years.
  - Achieved 86 percent accuracy after model evaluation on historical data, ensuring reliable short-term weather forecasts.
  - Technologies: PyTorch, Python, Pandas, Matplotlib, VS Code, Git.
- **Emotion Recognition by Facial Expression using Back-Propagation**
  Tools: VS Code, Jupyter, TensorFlow/Keras, OpenCV, NumPy
  - Built a deep learning-based facial expression recognition system capable of detecting emotions from images in real time.
  - Trained a back-propagation neural network using TensorFlow and Keras to classify emotions with improved precision.
  - Technologies: Python, OpenCV, Keras, TensorFlow, Haar Classifier, Canny Edge Detection.

Skills

- **Programming Languages:** Java, SQL, Git, C
- **Web Technologies:** HTML, CSS, React, Node.js, Express.js
- **Database Systems:** MySQL, MongoDB
- **Specialized Area:** Data Science, AI/ML
- **Data Visualization:** Tableau, PowerBI
- **Mathematical & Statistical Tools:** Excel, R Studio
- **Cloud Technologies:** Google Cloud, Azure, AWS (Beginner)
- **Soft Skills:** Problem-Solving, Team Collaboration, Time Management, Adaptability

Certifications

- **MERN Full Stack Certification Program** — *2024*

Additional Information

Languages Known: Telugu, English, Hindi, Tamil, Spanish