Padala Durga Prasadu

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SUMMARY

Computer Science undergraduate specializing in AI & ML with hands-on experience in developing real-world projects like CropIQ and Cap-Solar. Skilled in Python, TensorFlow, PyTorch, and various ML libraries. Excellent problem-solving, research, and collaboration abilities. Seeking a challenging role to develop cutting-edge AI solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, Kotlin, C++

Deep Learning Frameworks: TensorFlow, PyTorch, Keras, Caffe, Android Studio

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Git, Docker

PROJECTS

CropIQ: Satellite-Based Crop Recommendation System　　　　　　　　　　　Aug 2024 – Dec 2024
Deep Learning Project　　　　　　　　　　　　　　　　　　　　*Python, TensorFlow, EfficientNet*

- Designed a crop recommendation system using satellite imagery and EfficientNet B7
- Implemented advanced activation functions (Swish and Mish) to enhance model performance
- Processed and classified 1800+ Sentinel Hub images to identify soil types and recommend suitable crops

Hybrid Explainable AI for Network Anomaly Detection　　　　　　　　　　Jan 2025 – Apr 2025
Deep Learning Project　　　　*Python, Scikit-learn, TensorFlow, Autoencoders, XGBoost, SHAP*

- Developed a hybrid anomaly detection system combining ensemble models (e.g., XGBoost) with deep autoencoders for accurate detection of network intrusions
- Leveraged explainable AI tools like SHAP to interpret model decisions, enhancing transparency and trust in predictions
- Achieved high accuracy on benchmark datasets (e.g., NSL-KDD, CIC-IDS2017), reducing false positives while maintaining detection robustness.

EDUCATION

Kalasalingam University　　　　　　　　　　　　　　　　　　　　　　Madurai, Tamilnadu
B.Tech. in Computer Science, Artificial Intelligence; CGPA: 7.53　　　　　*Aug 2021 – May 2025*

Sri Chaitanya Junior College　　　　　　　　　　　　　　　　　Bhimavaram, Andhra Pradesh
Intermediate (Physics, Chemistry, Mathematics); CGPA: 7.43　　　　　　　*Jun 2019 – May 2021*

ZP High School　　　　　　　　　　　　　　　　　　　　　　　Manchili, Andhra Pradesh
Secondary School Certificate (SSC); CGPA: 8.3　　　　　　　　　　　　　*Jun 2018 – Mar 2019*

CERTIFICATIONS

- Python Workshop
- Project Ideathon Winning Certificate