Pranav P

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Profile

Aspiring data scientist and cybersecurity enthusiast ready to make a difference by creating answers to real-world problems. An enthusiastic student with a keen interest in leadership, teamwork, and securing digital systems.

Skills

Languages: Python, Java, C, SQL, Dart
Frameworks and Libraries: TensorFlow, OpenCV, Pandas, Numpy, Streamlit
Developer Tools: Git, GitHub Actions, Linux
Soft Skills: Project Management, Leadership, Problem Solving, Communication

Education

APJ Abdul Kalam Technological University Nov 2021 – June 2025
B.Tech in Artificial Intelligence and Data Science
St Joseph's College of Engineering and Technology, Palai

- Current CGPA: 7.8/10
- **Coursework:** Machine Learning, Deep Learning, NLP, Data Science, Big Data Analytics, DSA, OOPs

Sree Buddha Central School, Karuanagappally (CBSE) 2019 – 2021
Higher Secondary Education

- Grade: 90.8%

High School Education 2019

- Grade: 95.6%

Publications

Automated Mark Entry in Educational Institutions Using Multiple CNNs: A Case Study on Recognizing Handwritten Fractional Marks
Published in 2024 International Conference on Computational Intelligence and Network Systems (CINS), Dubai, UAE.
DOI: 10.1109/CINS63881.2024.10864430

Projects

Marks2CSV github.com/MakersCircle/marks2csv

- Developed an AI-based system to automate the recognition and conversion of handwritten marks on educational answer sheets into structured CSV files. Utilized a combination of three CNN models to accurately identify single-digit and fractional marks, reducing manual data entry time and errors significantly. Led the project and designed the system and models
- Tools and Concepts Used: TensorFlow, openCV, Streamlit, Latex, Convolutional Neural Networks (CNN)

Drowsiness Detection System
github.com/pranavxp/Drowsiness

- Machine learning project for self skill boost, this is a project aimed towards drivers, by analyzing key facial features, particularly eye movements and blink patterns and immediately alert the drivers.
- Technologies and Concepts Used: OpenCV, Dlib, Eye Aspect Ratio (EAR)

Accident Anticipation System github.com/MakersCircle

- Designed and implemented a real-time accident anticipation program using computer vision and deep learning techniques to predict traffic accidents from dash cam footage.
- Technologies and Concepts Used: Python, TensorFlow/PyTorch, Monocular Depth Estimation, Graph Neural Networks (GNNs), Temporal Attention, Multi-Task Learning

Courses and Certificates

- The Joy Of Computing Using Python *IIT Madras (NPTEL)*
- Fundamentals Of Artificial Intelligence *IIT Guwahati (NPTEL)*
- Wheeled Mobile Robots *IIT Madras (NPTEL)*