Nikhil M

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Objective

Full-stack web developer with hands-on MERN stack experience and a passion for building scalable web applications.and familiar with Python-based machine learning, computer vision, and simulation, Experienced in RESTful APIs, and real-time applications. Seeking an opportunity to apply skills in a dynamic development environment.

Skills

Languages: HTML, CSS, JavaScript, TypeScript, Next Js, React, Java, Python.
Backend: Node, Express, Vite, MongoDB, Postgres.
Tools: Github, Bash, Postman, Bootstrap, Tailwind.
Other: REST APIs, Authentication.
Certification : Full-stack Web Development - Angela Yu.

Education

Bachelor's in Computer Science – CMR University (CGPA : 7.59) 2021-2025
12th board – Narayana Olympiad School 2019-2020

Experience

ML Intern, Tequed Labs, Bangalore Oct – Nov 2024

- Assisted in developing classification and gesture recognition models using Python, scikit-learn, and NumPy.
- Preprocessed datasets by cleaning, normalizing, and extracting features, and split data for training/testing using Pandas and scikit-learn pipelines.
- Tuned hyperparameters and evaluated models like Random Forest, Logistic Regression, and Ridge Classifier to improve accuracy and performance.
- Documented results using Jupyter and gained hands-on exposure to the full machine learning lifecycle from data prep to deployment.

Projects

Attendance Tracking System

- Integrated MongoDB with Mongoose to store and retrieve user data, attendance logs, and session details
- Demonstrated CRUD operations and user role management,Implemented backend routes using Express.js for authentication, attendance logging, and user role management (Admin vs. Employee).

Gesture Crypt

Gesture-based authentication system using real-time ML models.

- Implemented hand gesture recognition with ML and pattern recognition,Trained and evaluated multiple classifiers (Random Forest, Ridge Classifier, Gradient Boosting) using scikit-learn to classify gestures with high accuracy from a custom dataset.
- Achieved high classification accuracy without deep learning, relying on classical ML and effective feature engineering.
- Integrated the trained ML model into a live video, displaying recognized gestures as on-screen predictions with recognition capabilities with 100% accuracy and can decrypt the hand signs to give its designated meaning.