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 a strong foundation in 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, React, Python
Backend: Node, Express, Vite, MongoDB, SQL
Tools: Github, Git Bash, Postman
 Other: REST APIs, Authentication.

Education

Bachelor's in Computer Science – CMR University (CGPA : 7.59)	2021-2025
12th board – Narayana Olympiad School	2013-2020

Experience

ML Intern, Tequed Labs, Bangalore   Oct – Nov 2023
- 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

Automated Navigation System
Tech Stack: Python
Automated navigation system using Carla
- Designed a simulation-based software system for autonomous vehicles using the **CARLA simulator** to navigate complex, unstructured road environments such as narrow alleys, potholes, and dense pedestrian areas.
- Demonstrated system adaptability through dynamic scenario testing, advancing AV capability in unpredictable and real-world-like conditions

Attendance Tracking System
Employee Attendance tracking system built with MERN

- 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
Tech Stack: Python
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 stream via **OpenCV**, displaying recognized gestures as on-screen predictions with recognition capabilities with 100% accuracy and can decrypt the hand signs to give its designated meaning.

Other

Languages : English, Kannada, Hindi
Extracurricular : Secretary of Literature club
Hobbies : Chess, Video Games