SINCHANA DK (YARA)

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OBJECTIVE

Aspiring software engineer driven by curiosity, innovation, and a passion for solving real-world problems through code.

PROJECTS

City Runner Game (Hand Gesture Version) — Unity, Python, OpenCV, TensorFlow GitHub

- Developed an interactive endless runner game controlled using real-time hand gesture recognition.
- Implemented gesture detection using OpenCV and TensorFlow.
- Integrated Python-based gesture input with Unity for seamless real-time gameplay control.

E-Scan — React, Tesseract, Python (Flask) GitHub

- Developed a backend-driven document management system for uploading, storing, and managing scanned documents.
- Implemented RESTful APIs for user authentication, document CRUD operations, and scanned data updates.
- Integrated MongoDB for structured storage of users, documents, and scanned metadata.
- Enabled secure file uploads using Multer and served documents through Express.

House Price Prediction —Python, Linear Regression, Machine Learning, Streamlit GitHub

- Built a house price prediction model using Linear Regression on real-world housing data.
- Performed data preprocessing, feature correlation analysis, and model evaluation.
- Deployed the model as an interactive Streamlit web application for real-time predictions.

Bitcoin Price Prediction — Python, Machine Learning, Streamlit GitHub

- Built a machine learning model to predict next-day Bitcoin price movement using historical market data.
- Performed feature engineering on time-series data and analyzed relationships using correlation heatmaps.
- Developed and deployed an interactive Streamlit web application for real-time prediction and visualization.

EDUCATION

Bachelor of Engineering Expected 2027
Global Academy of Technology

- Relevant Coursework: Data Structures & Algorithms, Machine Learning, Neural Networks, Web Development

SKILLS

Programming: Python, C/C++, JavaScript
Frameworks: React, TensorFlow, PyTorch, OpenCV, Unity 3D
Tools: Git, Figma, Vercel

EXTRA-CURRICULAR ACTIVITIES

- Participated in Recurzio V2 International Hackathon (Dayananda Sagar College of Engineering, Sept 2024), collaborating with peers to solve real-world challenges using innovative technical solutions.