

SINCHANA DK

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EDUCATION

Global Academy of Technology
B.E. in Computer Science

Expected 2027

- Relevant Coursework: Data Structures & Algorithms, Computer Networks, DBMS, Web Development

PROJECTS

[City Runner Game \(Hand Gesture Version\)](#) — Unity, Python, OpenCV, TensorFlow [GitHub](#)

- Built an interactive endless runner game controlled using real-time hand gesture recognition.
- Designed an OpenCV + TensorFlow pipeline to detect and classify hand gestures with low latency.
- Integrated Python-based gesture input with Unity to enable 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.
- Enabled secure file uploads using Multer and served documents efficiently 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 datasets.
- Cleaned and preprocessed data and analyzed feature correlations to improve model accuracy.
- Evaluated model performance using error metrics before deployment.

[Bitcoin Price Prediction](#) — Python, Machine Learning, Streamlit [GitHub](#)

- Developed a machine learning model to predict next-day Bitcoin price movement using historical market data.
- Performed feature engineering on time-series data to capture trends and price patterns.
- Analyzed relationships between features using correlation heatmaps for better model insights.

SKILLS

Languages: Python, C/C++, JavaScript

Machine Learning & CV: TensorFlow, PyTorch, OpenCV

Web & Deployment: React, Streamlit, Vercel

Tools: Git, Figma, Unity 3D, MongoDB Atlas

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.