

KAUSHIK GUPTA

Singtam East Sikkim, India

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PROFILE

B.Tech Electronics and Communication student with experience in Python, hardware, embedded systems, and app development. Proficient in IoT and microcontrollers. Seeking to expand expertise in industry and professional role.

EDUCATION

National Institute of Technology	Dec 2021 – present
• Bachelor of Technology - Electronics and Communication Engineering, CGPA: 6.41	
Kendriya Vidyalaya	July 2019 – May 2021
• Higher Senior Secondary, Science, Percentage: 69	
Government Senior Secondary School	Feb 2018 – May 2019
• Senior Secondary, Science, Percentage: 71.4	

SKILLS AND INTERESTS

- **Languages** : C, Python
- **Frontend Web development** : Html, CSS, Javascript, ReactJS, NextJS.
- **App Development** : React Native, Flutter.
- **Hardware Development** : MATLAB, Arduino Uno, IOT Using ESP32 and ESP8266
- **Hardware Simulation**: Verilog, Altium.
- **Tech Stacks** : MySQL, Firebase, MongoDB
- **Areas of Interest** : Mobile and Web App Development, Machine Learning, Embedded Systems, Gen AI, AI/ML
- **Soft Skills** : Leadership, Management, Teamwork, Problem Solving, Analytical Skills, Adobe photoshop, Canva.

EXPERIENCE

Embedded Systems and Hardware Intern , Uilatech LLP	June 2024 – August 2024
• Engineered and secured ESP-NOW communication for ESP32 devices, enhancing automation.	
• Developed a WLED usermod for smart home automation with seamless LED control via ESP-NOW.	
• Integrated auto-connect functionality for uninterrupted device connectivity.	
• Certificate	
App Development Intern , Foxaisr Technology	Dec 2023 – Feb 2024
• Developed a task management mobile app with efficient CRUD operations and an enhanced user interface.	
• Collaborated on backend integration, boosting app performance and reliability.	
• Conducted testing and debugging to ensure app stability and user satisfaction.	
• Certificate	

PROJECTS

- **Ai Disease Prediction** : This AI-driven disease prediction model uses the Gemini Pro API to analyze disease images, identify the condition, and explain its causes. It suggests immediate remedies while emphasizing the need to consult a doctor. Built with Streamlit, it ensures a user-friendly and interactive experience.
- **SQL Qrery Generator** : Loads data from an Excel file into a SQLite database and generates SQL queries based on user input using an AI model. It extracts, cleans, and executes the generated queries on the "vehicle" table, displaying results if successful, allowing dynamic querying based on natural language input.
- **Google Stock Price Prediction** : Built a model to predict Google's stock prices using TensorFlow, incorporating feature scaling and dropout regularization to enhance model performance and prevent overfitting. An LSTM model was employed for sequential data handling, and real vs. predicted stock values were plotted to visualize prediction accuracy.
- **Vehicle Classification** : Engineered a vehicle classification model using advanced techniques, leveraging shadow-based features like shape metrics and skewness. Optimized detection accuracy, significantly boosting precision for traffic monitoring systems.
- **Fitness Freak** : Developed 'Fitness Freak,' a dynamic React Native fitness app offering personalized workout plans and real-time progress tracking. Designed to elevate the fitness journey, it provides tailored routines for optimal results.
- **Anime Vault** :A Next.js website that fetches anime recommendations via APIs, displaying trending, top-rated, and genre-based suggestions with search functionality and detailed anime info.