Satyam Tomar

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Projects

CardioScan – Deep Learning ECG Classification Web App | *Python, TensorFlow, MobileNetV2, Flask, Render*   **March 2025**
- Developed a full-stack web application to classify ECG scans as **normal or abnormal**, assisting users in preliminary cardiac assessment.
- Built a custom **CNN model** on top of **pretrained MobileNetV2**, fine-tuned for ECG image classification with high accuracy.
- Designed and trained the model using a labelled ECG dataset; integrated metrics to show **prediction confidence percentages** for both classes.
- Developed a **Flask backend** to serve the model and handle image uploads, and connected it with a clean, responsive frontend UI.
- Followed best practices in model evaluation, preprocessing (resizing, normalization), and ensured scalability of the solution.
- Deployed Link: **https://cardioscan.onrender.com**

AI Chatbot using Gemini API | *HTML, CSS, JavaScript, Gemini API, Flask*   **April 2025**
- Built a responsive, web-based AI chatbot that interacts with users through natural language, powered by **Google's Gemini API**.
- Designed an **interactive and modern frontend UI** with responsive design principles for both desktop and mobile users.
- Integrated Flask backend to handle user messages, connect with Gemini API, and display AI-generated responses dynamically.
- Focused on enhancing user experience through clean UX/UI and smooth frontend-backend interaction
- GitHub Repository Link: **https://github.com/satyam-jaat/Gemini-API-ChatBot**

Experience

Web Content Developer

Nischay Foundation   **June 2024 - July 2024**
- Used WordPress to manage and update website content, ensuring smooth functionality and user accessibility.
- Created new pages and improved site layout to enhance user experience and engagement.

Certificates

C++, DSA   **August 2022**

Lovely Professional University — Certificate Link

The Bits and Bytes of Computer Networks   **March 2021**

Coursera — https://coursera.org/share/2aebff9f6b77da7fbd4bcfb8c1ba05b8

Technical Skills

Skills:: Data Structure and Algorithms, Object-Oriented Programming

Languages: Java, JavaScript, Python, SQL

Web Development: HTML, CSS, Bootstrap, Flask, WordPress

Database and Backend: MySQL, JDBC

Machine Learning: NumPy, Pandas, Matplotlib, Supervised Learning, Fuzzy logic systems

Tools and Platforms: Git, GitHub, Canva

Education

Lovely Professional University Punjab   **2023 – 2027**

Computer Science and Engineering — CGPA: 8.67   *Phagwara, Punjab*

Alpine Public School   **2022 – 2023**

12th with Science — Percentage: 84%   *Baghpat, Uttar Pradesh*

Alpine Public School   **2020 – 2021**

10th with Science — Percentage: 86.4%   *Baghpat, Uttar Pradesh*