Parth Saxena

+91 8982106965 parthsaxena0852@gmail.com Linkedin Github

Education

Vellore Institute of Technology, Bhopal Apr 2022 – Present
Integrated M.Tech in AI (5 years) (CGPA: 8.44) *Bhopal, Madhya Pradesh*

Experience

Vellicate Technologies Pvt. Ltd. May 2025 – July 2025
Software Development Intern (On-site) *Bangalore, India*

- Built TROA, a web platform for residential societies, streamlining operations such as move-in/move-out, billing, facility booking, and resident support through structured data management.
- Integrated Razorpay API for automated billing, achieving a 99.8% success rate and saving 25+ hours/month in manual effort.
- Deployed an intelligent RAG-based chatbot to handle 150+ resident queries daily with 98% accuracy and sub-second responses.
- Impact: Simplified society management for admins and enhanced self-service access for residents—easing day-to-day operations and improving overall user experience.

Projects

VastraVerse – Cultural AI Platform | *Python, Flask, HTML, CSS, JavaScript, Stable Diffusion, ControlNet, Gemini API*

- Developed VastraVerse, an AI-powered platform promoting Indian cultural heritage through interactive experiences like virtual attire visualization and an intelligent cultural chatbot.
- Implemented a Virtual Try-On feature using ComfyUI, Stable Diffusion v1.5, and IP-Adapter, enabling personalized, real-time visualization of traditional Indian outfits and boosting user engagement
- Built a Cultural Chatbot with Google Gemini API to deliver real-time, NLP-driven insights on Indian traditions, festivals, and customs.
- Engineered a full-stack web app with a modular Flask backend, RESTful APIs, and a responsive frontend (HTML5, Tailwind CSS, JavaScript) for a seamless user experience.

Anemia Detection using Conjunctiva Images | *Python, ML, OpenCV, TensorFlow, Keras*

- Achieved 93% accuracy in predicting anemia disease using CNN and 95% post-scaling with Random Forest Classifier.
- Gathered a comprehensive dataset of conjunctiva images containing 4,262 images across both anemic and non-anemic classes, ensuring data quality and integrity through preprocessing steps.
- Employed Random Forests for classification, leveraging extracted features of CNN to accurately identify anemic conditions from images.
- Secured a 96% recall rate for anemia detection using Random Forest, demonstrating robust algorithmic implementation.

Technical Skills

Languages: Python, C++, Java, JavaScript, SQL, PHP
Frameworks: Flask, ReactJS, Tailwind CSS, NumPy, Pandas, Scikit-learn, Keras, TensorFlow, Keras, NLTK
Databases: PostgreSQL, MySQL, MongoDB
Tools & Others: Git, GitHub, AWS , Azure, OpenCV, REST APIs

Achievements & Extracurricular Activities

- Worked remotely with Rekniq Consultants (Web Dev Intern, 2-Months): Revamped the corporate Google Site with new features and a full UI/UX redesign; separately built a client e-commerce platform in Odoo.
- HackerRank: Achieved 5-Star (Gold) ratings in both Python and SQL problem-solving.
- Leadership: Drove PR and secured sponsorships across 2 student clubs, leading 5+ successful events.
- Completed *Applied Machine Learning in Python* (University of Michigan, Coursera).
- Completed *Cloud Computing* (IIT Kharagpur, NPTEL).