Parth Saxena

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh — Apr 2022 - Present
Integrated M.Tech in AI (5 years) **GPA: 8.40/10**

Experience

Vellicate Technologies Pvt. Ltd. — **On-site (Bangalore)**
Software Development Intern — May 2025 – Present

- Engineered a residential web application **(TROA)** from scratch, following a structured multi-page layout with modules for facilities, events, emergency protocols, and member management.
- Designed and implemented a relational database schema to handle user authentication, content management, and dynamic data flows.
- Integrated secure online payment functionality and automated dues tracking.
- Developed and integrated a Python-based chatbot to automate resident support and service inquiries and Involved in full-cycle development including architecture planning, feature integration, testing, and deployment.

Rekniq Consultants — **Remote (Bhubaneswar)**
Web Development Intern — Jan 2025 – Mar 2025

- Redesigned and enhanced the company's official website by improving UI/UX, responsiveness, and implementing new interactive features.
- Developed a dedicated section to showcase articles and company highlights, increasing brand visibility and engagement.
- Refined the frontend of a client's e-commerce platform, optimizing product browsing, user interface, and checkout experience.
- Added interactive animations and subtle visual enhancements to improve website aesthetics and user engagement.

Projects

MovieMatch | Python, NLP, NLTK, Streamlit

- Developed a robust movie recommendation system using the TMDB 5000 dataset, implementing a content-based filtering approach
- Utilized natural language processing (NLP) techniques, including tokenization and stemming, to process text data for genres, keywords, and cast
- Calculated cosine similarity between movie vectors to find and recommend movies similar to a given input movie
- Designed a recommendation function that retrieves and ranks the most similar movies based on cosine similarity scores
- Result: Movie Recommendation System

Anemia Detection using Conjunctiva Images |Python, ML, DL, 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.
- **Technologies**: Python, ML, DL, OpenCV, Keras
- Result: Detection of Anemia Using Conjunctiva Images.

Skills

- **Languages**: Python, C++, MySQL, HTML, CSS, JavaScript
- **Frameworks**: Pandas, Numpy, Scikit-learn, TensorFlow, Keras, NLTK, Node.js, React.js, Next.js, Express, Streamlit
- **Tools**: Google Colab, VS Code, Jupyter Notebook, PyCharm, GIT , MySQL, Wix Studio

Achievements & Certifications

- Attained a 5-star rating on HackerRank in SQL and Python.
- Secured sponsorships, led events, and drove PR & outreach efforts to boost engagement at AI Club and BashCraft Club, VIT B
- Applied Machine Learning in Python (**Coursera**)
- NPTEL Cloud Computing (**NPTEL**)