Mayank Rathore

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EDUCATION

Vellore Institute of Technology, Bhopal **2023 – 2027**
B.Tech - CSE (Specialization in AIML) - ***CGPA - 8.68*** *Bhopal, Madhya Pradesh*

EXPERIENCE

Edusaint **October 2025 – December 2025**
Backend Developer Intern (Flask) *Remote*

- Developed backend REST APIs for selected ERP modules using Flask (Python).
- Implemented tenant-based data filtering using school identifiers to ensure secure data isolation.
- Wrote ORM-based database queries using SQLAlchemy and integrated APIs with frontend workflows.
- Debugged backend issues and improved API reliability through validation and structured request handling.

Entrepreneurship Cell, VIT Bhopal **February 2024 – August 2025**
Co-Lead, Design Team *Bhopal, Madhya Pradesh*

- Co-led the design team delivering branding and marketing creatives for E-Cell events.
- Collaborated cross-functionally to meet deadlines and maintain visual consistency.

PROJECTS

AI-Powered Document Summarization & Retrieval System | Python, Flask, FAISS, RAG, OCR

- Built an end-to-end AI document platform enabling automated summarization and conversational querying over PDF, DOCX, TXT, and scanned documents.
- Implemented Retrieval-Augmented Generation (RAG) with FAISS vector indexing to support context-aware Q&A over documents exceeding LLM token limits.
- Designed a scalable Flask backend with PostgreSQL to manage document metadata, embeddings, and summaries.
- Developed an interactive React frontend supporting file upload, real-time summaries, and document-based chat.

Dental Disease Detection & Classification using YOLO | React, Flask,IDE - VS Code

- Developed an end-to-end dental disease detection system using YOLOv8, testing multiple YOLO variants to achieve 92% accuracy on 2k+ X-ray images.
- Deployed in a Flask web app enabling automated disease detection from X-rays.
- Optimized training data distribution with stratified split and augmentation, resulting in improved model stability.

Multiple Disease Prediction Web Application | React, JavaScript, Flask

- Built and deployed a Flask-based AI web app predicting 4+ diseases with 94%+ accuracy using 5+ datasets.
- Integrated a Voting Classifier (XGBoost, Random Forest, SVM, Naïve Bayes), improving prediction reliability by 20%.
- Applied PCA and feature scaling to reduce training time by 30%.

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, SQL
Frameworks & Databases: Flask, React, PostgreSQL, MongoDB
AI/ML: Scikit-learn, Pandas, NumPy, YOLOv8, Gemini API
CS Fundamentals: Data Structures and Algorithms, OOP, DBMS
Tools: Git, GitHub, VS Code, PyCharm, IntelliJ, Canva

CERTIFICATIONS & ACHIEVEMENTS

- Data Structures and Algorithms - GeeksForGeeks
- Google Cloud Skill Boost – 19+ badges & certificates
- Reliance Foundation Undergraduate Scholar (2023)

EXTRACURRICULAR

- Rank 1, Roll Ball (State Level) – National School Games (SGFI)