Mayank Gupta

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Education

Master of Computer Application   **July. 2023 – July 2025**
Lovely Professional University   *GPA 8*

Bachelor of Computer Application   **June 2021 - June 2023**
Lovely Professional University   *GPA 8*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

Experience

OPEN Financial Technologies   **Nov 2024 – Present**
AI/ML Intern   *Bengaluru, Karnataka*

- Developed and deployed **machine learning models** using **Python** and **scikit-learn** for predictive analytics and fraud detection.
- Engineered and preprocessed large datasets using **Pandas**, **NumPy**, and **SQL** to improve model performance and accuracy.
- Built interactive **Power BI** dashboards to visualize AI-driven insights and model outputs for decision-making.
- Applied **feature engineering** techniques to enhance predictive accuracy and optimize data for ML algorithms.
- Worked on **model evaluation** and hyperparameter tuning to improve model efficiency and reduce false positives.
- Collaborated with cross-functional teams to integrate AI solutions into business operations and automate analytics workflows.

Projects

AI Medical Chatbot 2.0 | *Python, Generative AI, NLP, Speech-to-Text, Multimodal AI*   **Mar 2025**

- Developed an AI-powered chatbot integrating vision and voice capabilities for medical assistance.
- Utilized Meta Llama3 Vision 90B for image and text understanding, enhancing AI-driven diagnostics.
- Implemented OpenAI's Whisper for accurate speech-to-text conversion to process user voice inputs.
- Built a Gradio-based interface with gTTS and ElevenLabs for dynamic text-to-speech responses.

AI Lawyer Chatbot | *Python, Generative AI, RAG, LangChain, Streamlit*   **Feb 2025**

- Developed a Retrieval-Augmented Generation (RAG) chatbot for legal document analysis.
- Integrated Deepseek-R1 LLM with LangChain to provide accurate responses to legal queries.
- Implemented a vector database for efficient document retrieval and embedding-based search.
- Built a user-friendly Streamlit interface for real-time interaction with legal PDFs.

Brain Tumor Classification | *Python, Deep Learning, TensorFlow, Keras, CNN*   **Jan 2025**

- Developed a deep learning model using CNN for brain tumor classification from MRI images.
- Utilized transfer learning techniques to fine-tune a pre-trained model for improved accuracy.
- Implemented image preprocessing and augmentation to enhance model generalization.
- Evaluated model performance using key metrics to support healthcare diagnostics.

Skills

Programming Languages: Python, SQL
AI/ML Frameworks: TensorFlow, Keras, OpenCV, NumPy, Pandas, Matplotlib, Seaborn, scikit-learn
AI/ML Concepts: Deep Learning, Transfer Learning, Computer Vision, NLP, Generative AI, RAG (Retrieval-Augmented Generation)
Frontend Technologies: HTML 5, CSS 3, JavaScript ES6+, Angular, TypeScript, Tailwind CSS, Gradio, Streamlit
Databases: Vector Databases, PostgreSQL, MySQL
Concepts: OOPS, DBMS, SDLC, Operating System, REST API, JWT, Model Evaluation
Tools/Technologies: Git, GitHub, VS Code, Jupyter Notebook, Linux, Jira, OpenAI Whisper, ElevenLabs, LangChain, Ollama, Meta LLaMA3
Soft Skills: Problem Solving, Project Management, Team Collaboration, Time Management, Analytical Thinking

Leadership / Extracurricular

Fraternity   **Spring 2023 – Present**
President   *LPU*

- Achieved a 4 star fraternity ranking by the Office of Fraternity and Sorority Affairs (highest possible ranking).
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.