Imaad Hasan

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Education

Aligarh Muslim University July 2025
Bachelor of Technology - B.Tech, Artificial Intelligence *CPI: 8.44* — ***GATE Qualified (2025)***

Sayyid Hamid Senior Secondary School July 2021
Senior Secondary Physics, Chemistry & Mathematics (Class XII) *Percentage: 92.8%*

Our Lady of Fatima Secondary School April 2019
Secondary Certificate (Class X) *Percentage: 90.8%*

Skills

Languages: Python, SQL, C/C++, HTML/CSS, JavaScript, LaTeX

Tools: VS Code, Jupyter, Spyder, Git/GitHub, Linux, Excel, Power BI, Tableau, Pyspark, Apache Hadoop, AWS

Frameworks: Langchain, Flask, Tensorflow, Pytorch, FastAPI, Django, Streamlit

Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Plotly, OpenCV

Work Experience

STARlab Capital Onsite – Aligarh
AI Research Engineer (Full-time) *July 2025 – Present*

- Leading R&D for ViviSTAR — an AI-driven histopathology analysis platform for cancer diagnostics.
- Developed self-supervised learning pipelines and on SoTA algorithms for feature extraction from WSIs.
- Enhanced large-scale slide visualization, reducing latency and enabling efficient cloud deployment by reducing compute time by 90%
- Worked on LLM pretraining data pipelines using graph-based biomedical retrieval and maintained comprehensive documentation.

Predictive Software Intern – Zenon Analytics Onsite – Noida
Jun 2024 – Aug 2024

- Received a Letter of Recommendation for valuable contributions.
- Optimized ML pipelines, reducing processing time by 15% and improving overall workflow efficiency.
- Automated feature engineering for enhanced model explainability.

Relevant Coursework

Courses: Machine Learning, Artificial Intelligence, Deep Learning, Natural Language Processing, Data Visualization, Image and Video Processing, Reinforcement Learning, Recommender Systems, Linear Algebra, Calculus.

Projects

Development of a Low-Code Chatbot Builder | *Python, Langchain, LLMs* Sept 2024 – June 2025

- Designed and developed a low-code chatbot builder platform using a Retrieval-Augmented Generation (RAG) architecture integrated with large language models (LLMs).
- Built a flexible, generalized pipeline to cater to diverse industry use cases, ensuring adaptability and scalability.

Multimodal AI Approach for Ophthalmic Disease Detection | *TensorFlow, Flask* Feb 2024 – May 2024

- Developed a multi-modal AI system integrating deep learning models for ophthalmic disease detection using fundus images, enhancing diagnostic accuracy.
- Implemented a Flask-based backend for seamless patient data and image processing, enabling reliable classification and AI-generated diagnostic reports.

Road Segmentation and Object Detection | *PyTorch, ResNet101, YOLOv8, Git, Spyder* Feb 2023 – May 2023

- Developed a deep learning-based system for lane and object detection in semi-urban environments, improving autonomous vehicle perception.
- Used ResNet101 for semantic segmentation and YOLOv8 for object detection, achieving accurate scene understanding and hazard identification.

Positions of Responsibility

AMU Machine Learning Club | *Secretary* Apr 2024 – June 2025

- Organized the first annual fest of AMU ML Club, *"STELLAR"* (event summary link).
- Co-founded the AMU ML Club, leading workshops on Python, Machine Learning, and Responsible AI for 100+ students.