

Imaad Hasan

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WORK EXPERIENCE

STARlab Capital

Peoria, Illinois

AI Research Engineer (Full-time)

July 2025 – Present

- Leading R&D for ViviSTAR, an AI-driven histopathology platform for glioma based cancer diagnostics (in collaboration with UIUC)
- Developed self-supervised pipelines implementing state-of-the-art algorithms for feature extraction from WSIs.
- Optimized large-scale slide visualization, reducing compute time by 90% and enabling efficient cloud deployment.
- Built graph-based biomedical retrieval pipelines for large-scale LLM pretraining and maintained research documentation.

Zenon Analytics

Noida

Predictive Software Intern

Jun 2024 – Aug 2024

- Received a Letter of Recommendation for valuable contributions.
- Optimized the feature engineering pipeline, reducing processing time by 15%.
- Researched and implemented model interpretability techniques, integrating an explainability layer into the automated ML pipeline.

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.

EDUCATION

Aligarh Muslim University

July 2025

Bachelor of Technology - B.Tech, Artificial Intelligence

GPA: 3.38 — **GATE Qualified (2025)**

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

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, L^AT_EX

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

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.