

# Mohammed Noushir

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## Education

### **Queen Mary University of London**

Master of Science - Artificial Intelligence and Machine Learning in Science.

London, United Kingdom  
Sep 2024 - Sep 2025 **Acharya**

### **Institute of Technology**

Bachelor of Engineering - Artificial Intelligence and Machine Learning. Grade 2:1

Bengaluru, Karnataka, India  
Aug 2020 - May 2024

## Experience

### Scintilink

#### **Co-Founder & AI Research Lead**

London, United Kingdom  
Dec 2024 – Present

- Leading AI research and development on a platform that facilitates interdisciplinary knowledge discovery by integrating AI-powered reasoning across diverse academic domains.
- Developing modular agentic AI frameworks that assist researchers in contextualizing and prioritizing information within dynamic research workflows.
- Architecting scalable multimodal AI pipelines for retrieving and linking insights across diverse academic fields.
- Implementing explainable AI (XAI) and Agentic RAG techniques to enhance LLM transparency, alignment, and safe system behavior.

### Perplexity

#### **AI Business Fellow**

London, United Kingdom  
Feb 2025 – Present

- Selected for the inaugural cohort of this highly competitive AI business program.
- Participating in workshops and sessions led by industry leaders including Jensen Huang (NVIDIA), Ali Ghodsi (Databricks), and Aaron Levie (Box).
- Gaining expertise in implementing AI strategies and solutions for business innovation.
- Hands-on experimentation with \$40K+ in enterprise-grade AI tools.

### XQTechnical

#### **Graduate Automation Developer**

London, United Kingdom  
Feb 2025 – Present

- Conducting research and development (R&D) into emerging AI tools and platforms for recruitment automation in the F1 industry.
- Developing proof-of-concept solutions to enhance candidate sourcing, workflow automation, and business intelligence workflows within high-speed hiring pipelines.
- Proposing & Presenting practical AI findings and integrations to non-technical stakeholders, simplifying complex concepts into actionable insights.

### Queen Mary University of London

#### **AI & ML Demonstrator**

London, United Kingdom  
Sep 2024 – Present

- Delivered engaging lab sessions for AI and ML courses, guiding students in understanding complex concepts and implementing algorithms.
- Provided personalized mentorship, assisting apprentices with debugging, coding challenges, and optimizing machine learning projects.
- Collaborated with faculty to align lab content with industry trends, enhancing the relevance and practical impact of sessions.
- Analyzed apprentice engagements and behavioral trends to provide actionable, data-driven recommendations for refining course materials, designing impactful assignments, and curating targeted resources.

- Coordinated an intern team to drive Research and Development on 3 group projects.
- Engineered and fine-tuned Mistral 7B to support prompt-to-code web generation workflows; conducted empirical testing on generation quality and reliability.
- Designed a multi-agent Autogen system integrating contextual reasoning and reward-based decision-making for generative planning.
- Engineered a JSON Query Generator using Falcon7B, streamlining complex text-to-JSON transformations.

### Achievements

- Selected as a Judge/Panelist for targetjobs' National Graduate Recruitment Awards 2025, evaluating two major award categories.
- Won the Best Startup Idea Award at QHack, recognized by industry leaders for innovation in AI.
- Competitively selected for the Self-Made Programme by TargetJobs, engaging with top UK employers.
- Represented Queen Mary University of London at the Top London University Startup Mixer hosted by LSE.
- 2× Hackathon Runner-Up; nominated to represent at KAVACH 2023, a national cybersecurity hackathon by India's Ministry of Education.

### Projects

#### **Computer Auditory Imagination**

Nov 2023 – May 2024

- Gen-AI based Video Synthesis Model based on non-linguistic auditory inputs.
- Engineered a complex architecture incorporating audio encoders, large language models, and video synthesizers to mimic human auditory imagination with potential applications in Cognitive Science and Machine Hearing.

#### **Low-Light Sign Language Detection**

Mar 2023 – Jun 2023

- Real-time Sign Language detection Model for extreme low-light situations, using transfer learning & pre-trained Neural Network + SSD mobile Net V2 trained on in-house synthesized dataset.
- Coordinated tools and technologies such as TensorFlow, Mediapipe, OpenCV, Keras, LabelImg, CNN, and Transfer Learning.

#### **AI-Based Literary Style Transfer**

Sep 2023 – Jan 2024

- Fine-tuned a T5-based LLM for dynamic literary style transfer by inferring target style from reference text.
- Built an adaptive pipeline for style replication (tone, syntax, structure) with semantic preservation.

### Research

#### **Computer Auditory Imagination: A Multi-Model Approach for Audio to Video Synthesis**

Jun 2024

- Presented at the International Conference on Generative AI, Cryptography, and Predictive Analytics 2024 (ICGCPA-2024); published in Springer's "Studies in Smart Technologies" book series (2025). DOI: 10.1007/978-981-97-9132-3\_3
- Derived a novel Multi-Modeled Gen-AI Architecture to facilitate Audio to Video Synthesis and mimic Human Auditory Imagination.

#### **Region-Specific Adaptive Weighted Multiscale Retinex (RS-AWMSR): A Real-Time Approach to Low-Light Image Enhancement for Sign Language Recognition**

Oct 2024

- Invented a real-time low-light enhancement method to improve sign language recognition accuracy.
- Presented at IEEE 3rd International Conference on Computer Vision and Machine Intelligence 2024 (IEEE CVMI 2024) and published in IEEE Xplore. DOI: 10.1109/CVMI61877.2024.10782578

### Skills & Interests

**Technical Skills:** Python, C, PyTorch, TensorFlow, LangChain, LoRA, RLHF, Retrieval-Augmented Generation (RAG), Agentic AI, Knowledge Graphs, Information Retrieval, AWS (S3, EC2, SageMaker), Kubernetes, Docker.

**Soft Skills:** Leadership, Mentoring, Creative Problem-Solving, Critical Thinking, Adaptability, Effective Communication.