

# Muhaddis Farooq

AI Engineer

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## Professional Summary

Passionate AI Engineer skilled in designing and deploying machine learning and deep learning models for practical applications. Expertise in building complete AI pipelines covering data preparation, model training, and production deployment. Proficient in computer vision tasks such as image generation and face reconstruction, as well as natural language processing. Applies MLOps best practices to maintain model performance and reliability in cloud environments. Committed to translating new AI research into solutions that deliver real business impact.

## Technical Skills

- **Languages:** Python, C++, SQL, Java, TypeScript
- **AI Frameworks:** PyTorch, TensorFlow, Keras, scikit-learn
- **MLOps & Tools:** MLflow, Docker, Prometheus, Grafana, Git, GitHub Actions
- **Libraries:** NumPy, pandas, OpenCV, Pillow, Hugging Face Transformers
- **Cloud & Deployment:** AWS, Google Cloud, Azure
- **Web & APIs:** FastAPI, Flask

## Experience

### Web Design & Optimization Consultant (Remote) – HydraEV (UK)

Feb 2025 – Present

- Designed and developed the complete corporate website for HydraEV, a UK-based electric vehicle charging brand.
- Implemented advanced on-page SEO, performance enhancements, and cross-device responsiveness to boost visibility and engagement.
- Designed multiple branded digital assets and optimized user flows to align with HydraEV's commercial goals and modern EV aesthetics.

### Senior Software Engineer – LumaByte Pvt

Aug 2024 – Feb 2025

- Led the architecture and development of LumaByte's e-learning platform using React, Node.js, and MongoDB.
- Designed and implemented microservices-based APIs with Docker and Kubernetes for scalable deployments.
- Integrated payment gateways (Stripe, PayPal) and real-time notifications using WebSockets.
- Optimized application performance, reducing load times by 40% through code refactoring and caching strategies.
- Collaborated with cross-functional teams to deliver 5+ client projects on-time, ensuring 100% quality and client satisfaction.

### Software Engineering Intern – Buch International Hospital

Jun 2023 – Aug 2023

- Developed key features for a hospital web portal using PHP and MySQL.
- Collaborated in a team environment to deliver educationally impactful, real-time patient and staff systems.

## Achievements

- Awarded Dean's List certificate at FAST University for securing a GPA above 3.5.
- Solved 500+ algorithmic problems on LeetCode, HackerRank, and GeeksforGeeks combined.
- Earned a certificate of excellence in Python from Udemy.
- Published 600+ tutorial videos on youtube mentoring more than 2 million people across all platforms.
- Achieved 100% client satisfaction across multiple freelance/full-stack projects.

## Projects

### Sketch2Face: Facial Image Generation Suite

- Built an advanced AI pipeline with three separate models: sketch-to-face, text-to-image generation, and image manipulation.

### VisionNext: Comparative Frame Prediction (PyTorch)

[GitHub Link](#)

- Developed a pipeline to predict future video frames using PredRNN, ConvLSTM, and Transformer models.

### Pollution Monitoring Pipeline (Python, MLOps)

[GitHub Link](#)

- Trained predictive models and automated data pipelines for continuous monitoring.

### Logistic Regression from Scratch (One-vs-All)

- Built a multi-class classifier from scratch using logistic regression and one-vs-all strategy.

### IMDB Movie Rating Clustering (K-Means)

- Implemented K-means clustering from scratch using NumPy to cluster movies based on ratings.

## Education

### FAST NUCES, Islamabad

2021–2025

Bachelor of Science in Computer Science (BSCS)