

# Shahid Kamal

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## EDUCATION

Northeastern University

Boston, MA

MS Electrical and Computer Engineering (Machine Learning)

Expected Dec 2026

Relevant Coursework: Machine Learning Operations, Large Language Models, Machine Learning, Deep Learning, Advanced Computer Vision, Reinforcement Learning, Algorithms, Robotics Sensing and Navigation

Aligarh Muslim University

India

B.E Electrical Engineering

2019-2023

## EXPERIENCE

Checkit Analytics - Machine Learning Engineer (California, United States)

Jan 2026 - Present

- Built LLM-based RAG pipelines for grounded financial question answering and analytics
- Fine-tuned and deployed Qwen3-4B as the in-house backbone LLM, eliminating external API costs
- Built Rumor Check, a misinformation detection app leveraging LLM-as-Judge evaluation, and deployed it on AWS

Centre of Advanced Research in Electrified Transportation - Research Intern (Aligarh, India)

Dec 2022 - Feb 2023

- EV battery systems suffered from inefficiencies, leading to high energy loss during charging

- Optimized EV Battery Management System using Machine Learning, improving charging efficiency by 7%

- Used Random Forrest and LSTMs, reducing energy loss during charging by 10%

Indian Institute of Information Technology - Summer Research Fellow (Allahabad, India)

June 2022 - July 2022

- Worked with the research team on developing a dynamic routing mechanism in Capsule Neural Networks

- Researched different Routing mechanisms in CNNs and presented findings in the seminar

- Developed a hybrid architecture inception\_efficientcaps for dynamic routing in CNN Networks

## PROJECTS

Jobly – Agentic Job Search & Outreach Platform

Feb 2026 - Present

- Built a multi-agent, agentic AI system automating job search, outreach, tracking, and interview prep
- Designed LLM agents for resume tailoring and personalized recruiter email/LinkedIn messaging
- Implemented a stateful automation pipeline with human-in-the-loop controls and persistent memory

Lab Lens – Healthcare AI and MLOps Project

Sep 2025 - Dec 2025

- Built an end-to-end healthcare AI system for medical report summarization, diagnostic image analysis, and risk prediction
- Implemented a RAG Q&A pipeline enabling semantic search and patient-friendly insights from complex medical reports
- Designed MLOps workflows with model evaluation, monitoring, and bias checks for reliable and scalable deployment

Detection of COVID-19 from Chest X-ray images using Deep Learning Techniques

Aug 2022- May 2023

- Designed a custom CNN achieving 97.2% accuracy in COVID-19 classification using deep learning
- Implemented model compression and acceleration techniques to enable deployment on resource-constrained hardware
- Evaluated and validated performance on real-world CXR datasets, achieving clinical-level detection metrics

## SKILLS

Programming Languages: Python, MATLAB, C, C++, SQL

Machine Learning frameworks: TensorFlow, PyTorch, Keras, Numpy, Matplotlib, Pandas, Scikit-learn,

Robotics: ROS 2, SLAM, Robotics Perception, Sensor Fusion, Kalman Filter, Navigation

Tools: Git, GitHub, AWS, GCP, CI/CD Integration, Docker, Kubernetes

## PUBLICATIONS

- U. Farooq, S. Kamal and M. Sarfraz, "[Deep Learning Model for Edge Devices for COVID-19 Detection from CXR Images](#)," 2024 Tenth International Conference on Bio Signals, Images, and Instrumentation (ICBSII), Chennai, India, 2024, pp. 1-6
- Shahid Kamal, Dr. Mohammad Sarfraz, Sumaiya Fatma, Ifat Al Fatma, Shagufta Parween, Muhammad Al Maathidi, "[Comparative Analysis of deep learning techniques for fast detection of COVID-19 using CXR images](#)," Proceedings of International Conference on Advances in Computational Intelligence and its Applications, 2023, **Taylor and Francis**, CRC Press,