

Mohammad Hafeez Khan

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EDUCATION

University of Amsterdam

Amsterdam, Netherland

MSc in Artificial Intelligence

Expected Sep 2026

- Relevant Coursework: Machine Learning 1, Computer Vision 1, Deep Learning 1 and Natural Language Processing 1

Queen Mary University of London

London, UK

MSc in Data Science & Artificial Intelligence (Grade: Distinction)

Sep 2023

- Relevant Coursework: Python Programming, Statistics, Machine Learning, Data Mining, Deep Learning & Neural Networks, Risk & Decision Making for Data Science & AI, and Information Retrieval.

National Institute of Technology Agartala

Tripura, India

Bachelor of Technology in Engineering Physics (CGPA: 8.13/10)

July 2020

Rank 2 in Physics Department

- Relevant Coursework: Quantum Mechanics, Electronics, Electrodynamics, Classical Mechanics, Engineering Mathematics, Nuclear Physics, Statistical Physics and Thermal Physics, VLSI, Microprocessor and Microcontrollers, Atomic and Molecular Physics.

PROJECT & RESEARCH EXPERIENCE

Queen Mary University of London

United Kingdom

Seq2Seq Neural Machine Translation based on Transformer Architecture (Master's Thesis)

May-August 2023

- Building a Hierarchical Transfer learning based multilingual Neural Machine Translation for low resource Indian Languages by fine tuning the Sequence-to-Sequence architecture based on pre-trained Transformer architectures.
- Exploiting Transfer Learning, Lexical Similarity and Language Relatedness in common script Languages for the translation of Bodo, Dogri, Maithili and Konkani to English.

Queen Mary University of London

United Kingdom

Classification of CIFAR10 Dataset

March2023-April2022

- *Analysis & creative thinking*: Created a Deep Learning model for the classification of the CIFAR10 dataset. Built an algorithm by taking linear weighting of the output of linear layers with CNN layers.
- *Written communication & attention to detail*: Created a report on the training of deep learning models by tuning hyperparameters and got an accuracy of 90%.

Queen Mary University of London**United Kingdom**

Classification of Audio Data of Environment

Nov2022-Dec2022

- *Analysis & creative thinking:* Created an end-end pipeline for a Machine Learning model for the classification of audio data into five categories. Feature extraction from audio data captures different parameters such as power, loudness, and different sorts of frequencies.
- *Teamwork:* Participated in collecting the data for the project. The data was collected by Queen Mary University students which is named as Mile End Campus data.

National Institute of Technology Agartala**India**

Organic-Inorganic Semiconductors (bachelor's Thesis)

Jan-May 2020

- *Analysis & creative thinking:* Explored the Synthesis and Characterization of Polyaniline. Studied the effects of Cadmium Sulfide on the Electrical & Optical Properties of Polyaniline
- *Written communication & attention to detail:* presented my research and wrote a 40-page report on findings.

Institute of Nano Science and Technology Mohali**Punjab, India**

Rare Earth Doped Nanomaterials

June-July 2019

- *Analysis & creative thinking:* Experimented with the Synthesis and Characterization of Molybdate with doped Erbium. Studied the effects of Ytterbium on Photoluminescence.
- *Written communication & attention to detail:* presented my research and authored a 13-page report on findings.

SKILLS & INTEREST

- Programming: Python (Pandas, NumPy, Scikit Learn, SciPy, matplotlib, and Seaborn)
- Exploratory Data Analysis and Data Visualization.
- Supervised and Unsupervised Machine Learning, Deep Learning, Large Language Models such as Bert and Bart and Transfer Learning.
- On hand experience in data preprocessing, feature engineering, and data visualization.
- PyTorch, Hugging Face Transformers, Natural Language Processing, and Training on GPUs Clusters.
- Excellent Communication skills.
- Language: Fluent in English and Hindi.
- I like to do Athletics and play football in my free time.

EXTRA COURSES & CERTIFICATIONS

- Programming for Everybody (Getting Started with Python) by University of Michigan.
- Neural networks & Deep Learning by Coursera.
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization by Coursera.
- Structuring Machine Learning Projects by Coursera.
- Custom and Distributed Training with TensorFlow by Coursera.