

# WAQAS AHMED

---

- Kingston, ON K7L 5C9 • 1-709-327-9908 • wiquaaas@gmail.com
- <https://github.com/wiquaaas> • <https://www.linkedin.com/in/wiquaaas/>

## Key Highlights

- 3 Master's degrees in Artificial Intelligence, Computer Science, and Mining Engineering.
- About 5 years of experience as a data scientist, developer, researcher, and trainer.
- 3 research publications in peer-reviewed journals.
- 50+ Coursera data-related certifications.

## Skills

- **Programming:** Python, R, Java, Javascript, Linux, SQL, HTML, CSS, React
- **Cloud:** AWS EC2, S3, Hive, Hadoop, Spark, Kinesis, Athena, Quicksight, Sagemaker, Lambda
- **Machine Learning:** Pandas, Numpy, Scikit Learn, Tensorflow, Pytorch, Huggingface, OpenCV, Spacy
- **MLOps:** MLFlow, Docker, Kubernetes, Flask, Fast API, Ray, AWS Sagemaker, AWS lambda
- **Generative AI:** LLMops, LLM finetuning, RAG, LLM Application Development
- **Other AI interests:** Reinforcement Learning, Stochastic Mathematical Optimization

## Work History

### AI Developer and Trainer, 01/2024 to Present

#### WeCloudData – Toronto

- Provided instruction in MLOps and LLMops technologies to hundreds of students.
- Developed LLM applications that automated tasks for various companies, resulting in multimillion-dollar savings.

### Data Science Trainer, 05/2022 to Present

#### BloomTech Institute of Technology – USA (Remote)

- Instructed 100's of students in Python programming, statistical analysis, machine learning, SQL, MongoDB, model deployment, computer vision, and natural language processing.

### Research Assistant, 10/2021 to 05/2022

#### COSMO - STOCHASTIC MINE PLANNING LABORATORY – Montreal

- Achieved a GPA of 3.89 while completing coursework in Geostatistics, operations research, C++, and Machine Learning.
- Diligently studied and analyzed over 100 peer-reviewed articles focused on Stochastic Optimization and Mine Planning.
- Mastered the application of Reinforcement Learning in Optimization and Planning tasks.

### Data Scientist, 04/2021 to 09/2021

#### Afiniti – Islamabad

- Enhanced call center agent-caller pairing via data attribute analysis and customized model development, leading to a monthly revenue boost of \$1.4 million.
- Discovered evolving customer behavior trends by meticulously handling daily data streams of 30,000 calls, resulting in an 18% monthly revenue increase compared to baseline routing.
- Created and implemented MySQL-based real-time monitoring procedures, taking proactive measures to adapt modeling strategies according to production flags and historical performance data.

## **Data Science and BI Expert, 11/2020 to 04/2021**

### **MySportsAnalysis Ltd – UK (Remote)**

- Spearheaded the development of QlikSense ETL scripts and dashboards for real-time analysis of millions of data points.
- Designed and created a Natural Language Generation app that generated analytic pdf reports from CSV files within minutes of game completion, saving 1000's of manual work hours.
- Developed an interactive web page featuring essential visualizations using the QlikSense backend API.

## **AI Research Associate, 02/2019 to 11/2020**

### **National Center of Artificial Intelligence – Peshawar**

- Performed thorough literature reviews to pinpoint gaps and meticulously replicated and validated critical findings from pertinent research articles.
- Conceived, executed innovative research, conducted error analysis, and refined methodologies for peer-reviewed articles.
- Published 3 articles in peer-reviewed journals, contributing to the field of AI Applications in Mining.

## **Education**

### **Master of Science: Artificial Intelligence, 12/2023**

Memorial University of Newfoundland - Canada

- (4.0 / 4.0) GPA
- First-in-class Scholarship, 2023 from Memorial University of Newfoundland

### **Master of Science: Computer Science, 03/2021**

Virtual University of Pakistan - Pakistan

- (3.8 / 4.0) GPA
- One of the top 5 achievers in 3<sup>rd</sup> semester

### **Master of Science: Mining Engineering, 08/2019**

University of Engineering and Technology, Peshawar - Pakistan

- (3.6 / 4.0) GPA
- One of the best research award during Masters

### **Bachelors of Science: Mining Engineering, 08/2016**

University of Engineering and Technology, Peshawar - Pakistan

- (3.3 / 4.0) GPA
- First-in-class during the 5<sup>th</sup> semester

## **Publications**

### **Novel MLR-RF-Based Geospatial Techniques: A Comparison with OK**

<https://doi.org/10.3390/ijgi11070371>

### **A simulated annealing based approach for open pit mine production scheduling with stockpiling option**

<https://doi.org/10.1016/j.resourpol.2021.102016>

### **Predicting Calorific Value of Thar Lignite Deposit: A Comparison between Back-propagation Neural Networks (BPNN), Gradient Boosting Trees (GBT), and Multiple Linear Regression (MLR)**

<https://doi.org/10.1080/08839514.2020.1824091>