



# Aqsa Tariq

AI Engineer

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Ferozpur Road, Lahore, Pakistan

## Summary

I am Software Engineer worked specifically in Data science field. I also have hands-on on Aws and Azure cloud, Alteryx (Business workflow builder), power BI. Currently working on Time series modeling.

## Skills

Wordpress | Time Series & Forecasting | TensorFlow | s3 bucket | Research-based work | PyTorch | Python Development | PostgreSQL | MS Visio | Molecular Properties | MapReduce | Machine Learning | Latex | JAM Server | Hadoop | Git | Flask | Deep Learning | Data Science | Credit Risk Models | Computer Vision | Compute Engine | Cloudera Virtual Machine | Cloud Storage | Cassandra | Big Query | Azure Machine Learning Studio | Azure data Explorer | AWS SQS | AWS Redshift | Aws Lambda Function | Aws Kinesis | Alteryx | Adobe Photoshop Command

## Experience

Mar 2022 - Present

### AI Engineer

Avanceon Group Of Companies, Lahore, Pakistan

I am working on Time Series based models and Azure cloud to build ml pipelines. I have hands on experience on Azur ML studio. Azure Data explorer, git, Azure VM, Azure Function, Azure Blob Storage, Sql. For building reports I am using power bi.

Mar 2021 - Mar 2022

### Data Scientist

Odyssey Analytics, Lahore, Pakistan

Worked on AWS services(Redshift, DynamoDb, Lambda Function, SNS, Kinesis, S3 Bucket) and Oracle SQL dalb for building and maintaining data in data lake. Also build workflows for financial processes in Alteryx. Deploy Credit Risk and Medical Models for their own platform. i also part of Internship program at Odyssey Analytics.

Jun 2021 - Nov 2021

### ML Engineer (Deep Learning)

Techpet Global, Port Harcourt, Nigeria

I got opportunity to work with them on their deep learning projects that are specifically related to Agriculture domain. I worked on Satellite imagery data to identify the Crops and their deseases.

Jan 2021 - Mar 2021

### Technical Research Writer

Intersoft BPO, Lahore, Pakistan

I worked as Researcher and worked on different articles, blogs, essays, Thesis and research papers.

Nov 2018 - Sep 2019

**Lecturer**

Govt. Poatgraduate college For Women Gulberg, Lahore, Lahore, Pakistan

Work as a Computer Science Lecturer. I taught BS(hons.) IT, Computer science Major subjects (OOP, Data Structures, Distributed Database, Digital age Processing, Operating Systems) and also take Minor subjects of other Applied Science Dicipines.

Also part of Online College Admission Team at Directorait Of Punjab Institute, Lahore.

As well Develop College Library Databse for this College.

Aslo Part of Organizer team for conduction International Applied Science Conference, 2019.

Oct 2017 - Oct 2018

**Lecturer**

Govt. Postgraduate College for Women, Wahdat Colony Lahore, Lahore, Pakistan

Work as a Computer Science Lecturer. I taught BS(hons.) IT, Computer science Major subjects (OOP, Digital Logic and Design, Introduction to Computer Fundamentals, Software Engineering, Web Programming) and also take Minor subjects of other Applied Science Dicipines.

Also part of Online College Admission Team at Directorait Of Punjab Institute, Lahore.

As well aslo Part of Organizer team and Team that presents tribute to Woman on Women Day 8, March 2018 at international level in Ceremony Conducted in Al Humra Hall by the cureent Punjab Governoment.

Aug 2017 - Sep 2017

**Coordinator**

Private School, Lahore, Pakistan

Work as a coordinator in a private School

## Education

2022

**Information Technology University**

M-Phill , MSDS  
DATA SCIENCE

2020

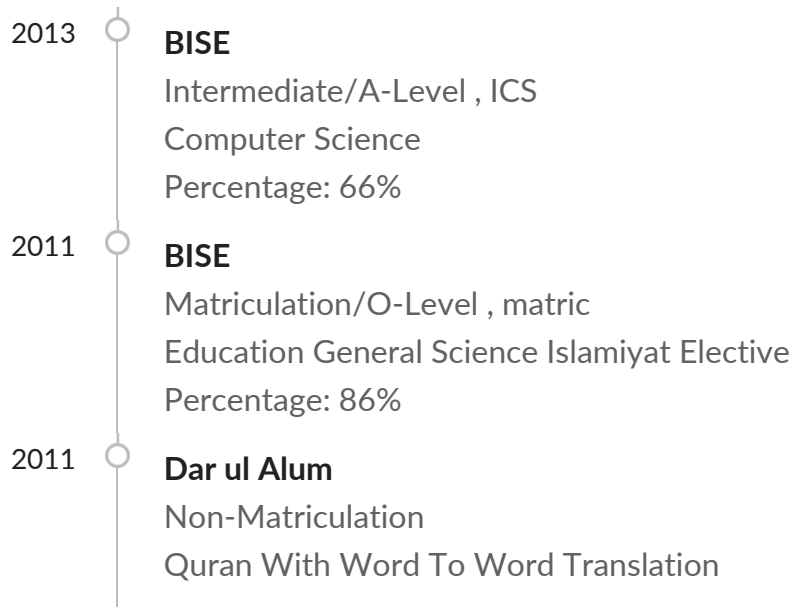
**Allama Iqbal Open University (AIU)**

Bachelors in Technology , B.Ed  
Technology in Education  
Grade: B+

2017

**Lahore College for Women University**

Bachelors in Technology , BSCS  
Computer Science  
CGPA: 3.6/4



## Projects

### Crypto Mining

Performed time series analysis on Different crypto data for client and try to achieve more accurate forecasting for next 7 days. Worked on Sarimax, LSTM, gboost, and hybrid models.

### Manup

I am working for a International client from USA on their platform Manup. Where they are getting services from Nigerian people and they want to impact on inflammation rate of dollar and Naira on their employees satisfaction. For this I am working on Autoregressive models to predict the inflation rate.

### Precision medicine Using machine Learning

Worked on Unsupervised approach, Transformers learning and different other ml algorithms.

### Bioinformatics (MOLECULAR PROPERTY PREDICTION)

In my Thesis research I am working on the Molecular property prediction using the unsupervised learning approach.

### Commercial Data Lake

Working on AWS Redshift, Oracle, AWS Lambda Function, JAMS Server, Pycharm

### Self Analytics

Using the Alteryx tool developing the workflows for our one reputed client to automate their financial processes.

### Non Greedy Optimal Decision Trees

Working on non greedy decision tree approach.

### Agglomerative Model Based Hierarchical Clustering Algorithm

I was working on loss function optimization

### Model Based Hierarchical Clustering

Working on loss function optimization.

### House counting Through Satellite imagery

Write a survey paper on house counting and provide the great literature on this topic.

### End to End Learning and Optimization on Graphs

[https://github.com/AqsaTariq/ClusterNet\\_ML\\_Project](https://github.com/AqsaTariq/ClusterNet_ML_Project)

Visit The website for more details.

### Analyze Covid-19 Public Datasets Using Gcp

Working on different Covid 19 datasets available online to analyze and predict the end of this panedamic and how its speard in dofferent countries as well as how temperature and humidity is playing role in this disease spread.

### Machine Learning For Precision Medicine

[https://github.com/AqsaTariq/msds19005\\_G1D\\_DLSpring2020](https://github.com/AqsaTariq/msds19005_G1D_DLSpring2020)

Me and my fellows working on drug discovery for covid-19 using ai and machine learning and deep learning models.

## Comprehensive Question Answering system

Work on wikipedia dataset to increase the BERT model benchmark for QA systems

## Secured Biometric ATM System

Secured Biometric ATM system was my final year project. Which provides 2 level of security to user by Fingerprint and PIN verification.

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## Languages

Urdu  
Expert

English  
Expert