# Muhammad Umar Salman

DATA ENGINEER · PYTHON DEVELOPER · DATA SCIENTIST

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## Education

**Mohamed Bin Zayed University Of Artificial Intelligence**                     *Abu Dhabi, UAE*

MASTERS OF SCIENCE                                                              *Aug 2021 - Present*

- **Major:** Natural Language Processing          **CGPA:** 4.0
- **Relevant Courses:** Natural Language Processing, Big Data Processing, Speech Recognition, Artificial Intelligence

**Lahore University of Management Sciences**                                    *Lahore, Pakistan*

BACHELOR OF SCIENCE (HONORS)                                                    *Aug 2016 - June 2020*

- **Major:** Computer Science          **CGPA:** 3.50
- **Relevant Courses:** Data Science, Data Mining, Machine Learning, Deep Learning, Data Structures, Algorithms, Databases

## Experience

**Decklaration**                                                               *Lahore, Pakistan*

PYTHON DEVELOPER | DATA SCIENTIST                                              *Dec 2020 - Aug 2021*

- Developed the backend of a Crypto + Finance News Aggregator in **Django** (Python) using its rest framework and it deployed on **AWS**
- Designed and implemented a **Recommendation System** based on Collaborative Filtering and using **Natural Language Processing** techniques for a Financial News Aggregator in **Python**.

**United Arab Emirates University**                                            *(Remote) Lahore, Pakistan*

RESEARCH ASSISTANT                                                            *Oct 2020 - Feb 2021*

- Develop simulation codes of a selection algorithm for On-Demand Mass Transport in **Python** that models the dynamic routing of public services to minimize the waiting time along with increasing bus capacity utilization

**Afiniti**                                                                    *Lahore, Pakistan*

DATA ANALYST                                                                  *June 2020 - Oct 2020*

- Designed models to optimize pairing between call-center agents and customer call groups to maximize the profit of the company in the Artificial Intelligence department where I also analyzed the effects of the model on the data using **SQL, Python and R Language**

## Projects

**OLX Business Analytics (Capstone Project)**

DATA SCIENTIST                                                                *Sept 2019 - May 2020*

- Provided insights on the behavioral pattern of the customers on the OLX website platform through **clickstream and cluster analysis**.
- Constructed a conversion metric to identify serious buyer using various **Machine Learning and Association Mining Algorithms**.

**Barkaat**

DJANGO DEVELOPER                                                              *Feb 2021 - May 2021*

- Developed and deployed the backend for a mobile application in **Django** using it's rest framework to provide endpoints.

**Forecasting Prices for Cryptocurrencies**

                                                                             *Oct 2019 - Dec 2019*

- Built a **time-series model** in **Python** which forecasted future prices for Bitcoin using an **Auto-Regressive Model (ARIMA)**

## Skills

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|---|---|
| **Languages** | Python, Bash Script, SQL, C++, Javascript, R, VBA, LaTeX, Golang |
| **Big Data Tools** | Map Reduce, Hadoop, Apache Spark, Apache Airflow, Apache kafka, AWS EMR |
| **Databases** | MySQL, MongoDB, Postgres, Apache Cassandra |
| **Development** | Django, Node, Flask, AWS EC2, AWS RDS |
| **Data Modelling** | Pandas, Numpy, Tensorflow, PyTorch, Scikit-Learn, Selenium, Scrapy, NLTK |
| **Visualization** | Matplotlib, Dash + Plotly, Charts.js, Seaborn, Tableau, Powerpoint |
| **Tools** | Docker, Git, Slack, Postman, Jupyter Notebook |