

# Muhammad Haris

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## EDUCATION

### Lahore University of Management Sciences

July 2021 - July 2023

Candidate for MS (Computer Science) - **CGPA/Grade: 3.91**

*Relevant Courses:* Applied Probability (A), Machine Learning (A), Big Data Analytics (A), Multi-agent Systems (A), Deep Learning (A), Distributed Systems (A-)

### Lahore University of Management Sciences

September 2013 - July 2017

BS (Electrical Engineering)

*Relevant Courses:* Digital Signal Processing, Power Electronics, Computer Networks

## CERTIFICATIONS/TRAININGS

- NVIDIA Fundamentals of Deep Learning
- IBM Data Engineering Foundations Specialization
- Udacity Data Engineering Nanodegree Program

## EXPERIENCE

### Fiver

Freelancer

April 2018 - Present

- Utilized Python for web scraping, data analysis, and manipulation using libraries such as Pandas and NumPy
- Developed expertise in data engineering technologies such as Spark, AWS, Hadoop, and Cassandra to efficiently handle and process large datasets
- Collaborated with clients to identify their specific needs and requirements and provided customized solutions to deliver high-quality deliverables
- Maintained open communication with clients throughout the project lifecycle to ensure that project milestones and timelines were met

### LUMS

Teaching Assistant - Applied Probability

September 2022 - December 2022

- Conducted tutorials for Applied Probability course
- Checked and evaluated student assignments

### Elevate AI

Machine Learning Intern - Artificial Intelligence

June 2022 - October 2022

- Collaborated with a team on multimodal AI projects involving voice tone, body language, speech, and facial expressions
- Utilized PyTorch for deep learning tasks and developed skills in speech processing
- Contributed to the development of innovative AI solutions that enhanced the company's capabilities and improved client satisfaction

### Sigma Motors

Intern

July 2015 - August 2015

- Gained experience in sensors and electric circuits
- Contributed to various projects in the field of automotive engineering

## PROJECTS

- Designed and implemented a consensus-based database system using Golang, which utilized the Raft algorithm to ensure data consistency and fault tolerance.
- Gained valuable experience in Golang programming, distributed systems, and consensus algorithms while delivering a robust database solution.
- Led the development of a data extraction solution for a German e-commerce startup to handle their inventory management needs.
- Designed and implemented a parallel operation system using Python to extract and process large amounts of data from various sources, resulting in a significant reduction in processing time
- Conducted research on fairness in imputation of missing features in graph data using GNN and GCN as classifiers
- Developed a game theoretic approach to enable distributed coverage of graphs as part of a research project.
- Conducted text analytics and clustering using unsupervised learning methods as part of a data analysis project.
- Vehicle Detection and Classification from Images and Videos
- Data Engineering – *Data modeling with Postgres and Apache Cassandra; Project Data Warehousing; Project Data Lake; Project Data Pipelines with Airflow*
- Voice tone classification (Emotion-detection)
- Research experience in smart grids – *The project was the development of test bed for experimental validation of smart grid technologies for demand side management.*
- Analysis of 5G network in Ultra Dense Cellular Networks

## ADDITIONAL SKILLS AND EXPERIENCE

- Python- NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch
- Python- Flask, Django, RestAPI
- PHP
- SQL
- AWS
- Web scraping

## HONOURS AND AWARDS

- Placed 3rd in the Sultan Khan Memorial Chess Championship 2012.
- Served as a member of the Media Department and Admin team for LUMS Olympiad, contributing to the successful planning and execution of various events.

## INTERESTS

- Machine Learning/Deep Learning
- Data Science
- Backend programming
- Algorithmic Game Theory