

# Ahmad Tariq

## Middle Data Scientist | Machine Learning & Deep Learning Engineer | MLOps Enthusiast

### SUMMARY

A seasoned software engineer with a Master's in Electrical Engineering from Lahore University of Management Sciences and a Bachelor's in Computer Engineering from NUST. Specializing in data science, the engineer has honed skills in Tableau, Microsoft Power BI, and Amazon Redshift, showcasing versatility in data analytics and visualization tools. Fluent in English and Urdu, the candidate possesses full professional and native language proficiencies. Contributing to several research projects, the engineer has a track record in machine learning and automation systems, having led a team of 100+ staff on a major metro transit system and developed a localized Urdu search engine. The candidate's technical portfolio includes optimizing Information Retrieval and ML algorithms for news classification and ad-serving systems, aligned with top-tier research in Smart Data Systems and Intelligent Control.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Tableau (1 yr.), Power BI (1 yr.), AWS Redshift (1 yr.)
<b>Programming Languages</b>	Python (4 yr.)
<b>AI &amp; Machine Learning</b>	Amazon Machine learning services, AWS ML (Amazon Machine learning services), TensorFlow
<b>Python Libraries and Tools</b>	TensorFlow
<b>Data Analysis and Visualization Technologies</b>	Business Intelligence (BI) Tools, Data Analysis (3 yr.), Data visualization, Power BI (1 yr.), Tableau (1 yr.)
<b>Databases &amp; Management Systems / ORM</b>	AWS Redshift (1 yr.)
<b>Amazon Web Services</b>	AWS Cloudformation, AWS ML (Amazon Machine learning services), AWS Redshift (1 yr.)
<b>Google Cloud Platform</b>	GCE
<b>UI/UX/Wireframing</b>	3D Modelling
<b>Virtualization, Containers and Orchestration</b>	GCE

<b>Other Technical Skills</b>	Optimism, Tools, Unreal Engine
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## WORK EXPERIENCE

### **Research Associate | Team Lead, Simulation Model for Stairlift**

**Duration:** April 2019 - December 2019

**Summary:** Simulation model development for a stairlift

**Responsibilities:** Worked in the Bio Medical Lab on making a simulation model for a Stairlift for elderly

### **Research Officer | Machine Learning Engineer, Humkinar Urdu Search Engine**

**Duration:** September 2018 - March 2019

**Summary:** Urdu search engine and machine learning algorithms improvement

**Responsibilities:** Part of High-Performance Computing and Networking Lab (HPCNL), Improved the Information Retrieval and Machine Learning algorithms for an Urdu Search Engine 'Humkinar', Designed, Developed, and Deployed an Ad-Server system

**Technologies:** Python, Machine Learning, SEO, SEM

### **Research Assistant, Intelligent Control Systems Application**

**Duration:** September 2017 - September 2018

**Summary:** Applications of Intelligent Control Systems

**Responsibilities:** Building applications of Intelligent Control Systems, developed a Particle filter-based Terrain Vehicle Localization application

**Technologies:** IMU sensors, Particle filter-based localization

### **Automation Engineer | Team Lead, Automation of Orange Line Metro**

**Duration:** March 2020 - October 2021

**Summary:** Orange Line Metro project automation engineering

**Responsibilities:** Team Lead supervision of 100+ staff for Automation Systems operation and maintenance, troubleshoot Automation Systems, SOP development and upkeep, scheduled maintenance activities

**Technologies:** Building Automation, Fire Alarm Systems

### **Data Scientist, Various Data Science Projects**

**Duration:** April 2022 - July 2023

**Summary:** Data science and machine learning projects

**Responsibilities:** Data science tasks at Dice Analytics

**Technologies:** Data Analysis, Machine Learning

## **Trainer, Machine Learning | Deep Learning | Computer Vision Training**

**Duration:** January 2023 - March 2024

**Summary:** Machine learning, deep learning, and computer vision training

**Responsibilities:** Providing training in ML, DL, and Computer Vision

**Technologies:** Machine Learning, Deep Learning, Computer Vision

## **Data Scientist, Various Data Science Analysis Projects**

**Duration:** July 2023 - June 2024

**Summary:** Data science projects involving data analysis

**Responsibilities:** Data analysis and related projects at Vroozi

**Technologies:** Data Science Tools

## **Associate Researcher, Academic Research Projects**

**Duration:** June 2024 - December 2024

**Summary:** Research work at Texas A&M University at Qatar

**Responsibilities:** Associate research activities

## **Data Analyst, Data Analysis Projects**

**Duration:** October 2024 - February 2025

**Summary:** Data analysis solutions at Data Logic Solution

**Responsibilities:** Data analysis related projects

**Technologies:** Tableau, Microsoft Power BI, Amazon Redshift

## **EDUCATION**

- **Lahore University of Management Sciences**
  - Master's degree, Electrical Engineering
  - 2015 - 2017
- **National University of Sciences and Technology (NUST)**
  - Bachelor's degree, Computer Engineering
  - 2011 - 2015
- **Garrison Academy for Boys, Lahore**
  - Matriculation, Sciences