

# Muhammad Osama Tahir

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## Professional Summary

Data scientist with a unique blend of machine learning process and web development expertise. I harness the power of Python, SQL, and the MERN stack to transform raw data into groundbreaking insights and build scalable solutions that drive innovation and create real-world impact.

## WORK EXPERIENCE

### Data Scientist

Data Dot • 02/2024 - Present

- Master AI and Machine Learning Fundamentals: Gain expertise in core AI principles, including ML, deep learning, NLP, and computer vision, using popular frameworks like TensorFlow, PyTorch, Keras, and Scikit-Learn.
- Hands-On Experience: Develop AI models, preprocess large datasets, and apply algorithms to extract insights and predictions, preparing you for real-world AI projects.
- Applied Principal Component Analysis (PCA) for dimensionality reduction, improving model performance by retaining 95% variance while reducing computational costs by 20%.
- Designed and implemented secure, scalable data pipelines and integrated AI-driven analytics solutions into cloud environments, including AWS, Azure, and Google Cloud.
- Created advanced data visualizations and dashboards to effectively communicate trends, enabling stakeholders to make data-informed decisions.
- Developed a Meeting Minutes Assistant using Google Cloud Platform (GCP), integrating OpenAI's GPT model to generate detailed meeting summaries and provide chatbot-based insights for users.

### Associate Software Engineer

Dev & Mark • Lahore • 01/2023 - 11/2023

- Engineered a full-stack eCommerce application, constructing a RESTful API with Node.js and Express.js, integrating MongoDB for data storage, and implementing authentication and authorization with JWT tokens
- Crafted and deployed a responsive frontend using pure JavaScript and Axios, ensuring seamless interaction with the backend.
- Developed a secure API in Nest.js, incorporating robust authentication and authorization mechanisms.
- Developed a comprehensive automation solution with Azure Logic Apps that integrated Azure Service Bus, resulting in a 25% reduction in manual processing time for client onboarding tasks, enhancing overall productivity.
- Built an Azure Function App using Node.js and currently enhancing API functionality and security through Azure API Management (APIM).

## CERTIFICATIONS

Passed 2023

Google Data Analytics Course

## SKILLS

### Data Analysis

- Python (NumPy, Pandas, SciPy, Matplotlib, Seaborn)
- Exploratory Data Analysis (EDA)
- Statistical Analysis
- Power BI

### Machine Learning

- Scikit-learn
- Supervised Learning
- Support Vector Machines (SVM)
- Random Forests
- Principal Component Analysis (PCA)
- K-Neighbors
- LLMs
- Azure
- AWS

### Web Development

- JavaScript
- NodeJS
- ExpressJS
- Mongo DB

## EDUCATION

### Master in Data Science

Information Technology University.  
Lahore

### Bachelor in Computer Science

Government College University, Lahore.  
Lahore