

# Talha Gafoor

AI & Machine Learning Engineer | Data Scientist

Machine Learning specialist developing intelligent systems using Python, TensorFlow, and PyTorch. Built AI-powered applications including chatbots, predictive models, and OCR systems. Certified by IBM and Google with expertise in data analysis, NLP, and cloud deployment. Passionate about solving complex problems through data-driven AI solutions.

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Faisalabad, Pakistan

## EDUCATION

### BS Computer Science

Namal University Mianwali

11/2021 - Present

**Relevant Courses:** AI and Machine Learning, DSA, Analysis of Algorithms, DBMS, Information Security, Cyber Security

## PERSONAL PROJECTS

### Patient Communication Platform(FYP)

- Developed HIPAA-compliant platform with OAuth 2.0, WebSockets, and EHR integration, enabling secure messaging and task management for 500+ users.

### Urdu OCR System

- Enhanced state-of-the-art Urdu text classification by 15% accuracy through custom dataset generation (10,000+ augmented images) and noise-resilient model tuning.

### Movie Recommendation System

- Built Flask-based recommender using collaborative filtering (TF-IDF + matrix factorization), achieving 85% user satisfaction in testing.

### SIEM Implementation (Wazuh)

- Integrated Snort, Graylog, and VirusTotal for threat detection, reducing response time by 30% via custom dashboards.

### Stock Price Prediction

- LSTM model predicted trends with 92% accuracy; visualized insights in Power BI for real-time trading decisions.

## WORK EXPERIENCE

### Internee (Backend Developer)

EZMD Solutions

09/2024 - Present

Achievements/Tasks

Designed and developed a secure and efficient Patient Communication Platform, consisting of two mobile applications—one for healthcare providers and one for patients—along with a web application for providers and Virtual Medical Assistants (VMAs).

## SKILLS

Python

Machine Learning

Deep Learning

TensorFlow

PyTorch

Data Science

NLP

AI Chatbots

Predictive Modeling

Pandas

NumPy

Power BI

Flask

REST APIs

SQL

MongoDB

JavaScript

Wazuh

AWS

Problem Solving

## CERTIFICATES

Machine Learning with Python (Coursera)  
(03/2023 - 03/2023)

IBM Data Science Professional (09/2022 - 09/2022)

Python for Data Analysis (Udemy) (08/2023 - 08/2023)

## LANGUAGES

English

Full Professional Proficiency

Urdu

Native or Bilingual Proficiency

## INTERESTS

AI

Data Science

Competitive Programming

ML