

Asif Shahzad

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 Portfolio  LinkedIn  GitHub

Profile

AI/ML Engineer and BSCS candidate at FAST NUCES with hands-on experience in building end-to-end machine learning systems—from data ingestion and feature engineering to model deployment. Strong background in Python, ML pipelines, API development, cloud deployment, and applied NLP.

Experience

Netsol Technologies

AI Developer Intern

- Developed and deployed ML-powered backend services using FastAPI for real-time inference.
- Integrated third-party APIs and internal services for data ingestion and model consumption.
- Containerized applications using Docker and deployed on AWS EC2 and AWS Lambda.

WriteO

Data Scientist Intern

- Performed end-to-end data analysis including EDA, feature engineering, and model evaluation on large datasets.
- Built and optimized regression and classification models using scikit-learn with cross-validation.
- Communicated insights through interactive dashboards and data visualizations for business stakeholders.

Projects

Movie Revenue Intelligence System

2025

- Built a complete ML system to predict movie revenue. Engineered high-impact features including genre popularity, cast/director success scores, studio-level aggregations, and release seasonality.
- Trained and compared multiple models (Linear Regression, Random Forest, XGBoost, LightGBM) with hyperparameter optimization.
- Deployed the final model using FastAPI with Docker, including revenue prediction and hit/flop classification endpoints.

JobPulseAI — Automated Job Market Analytics Platform

2025

- Designed a production-grade ETL pipeline using Prefect to ingest and process daily job postings from the Adzuna API.
- Applied NLP techniques (ontology-based regex, TF-IDF) to extract and analyze in-demand skills from job descriptions.
- Developed an interactive Streamlit dashboard showcasing salary trends, skill demand, and hiring locations.
- Deployed the system on AWS EC2 with minimal manual intervention and automated scheduling.

Education

FAST National University

2022 – Present

Bachelor of Science in Computer Science

Skills

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| • Programming: Python, C++ | • NLP: TF-IDF, Text Processing, Skill Extraction |
| • ML & AI: scikit-learn, XGBoost, LightGBM, TensorFlow | • Backend & Cloud: FastAPI, Docker, AWS EC2, AWS Lambda |
| • Data Engineering: ETL Pipelines, Prefect, Pandas, NumPy | • Visualization: Matplotlib, Seaborn, Plotly, Streamlit, Power BI |

Certifications

Extract, Transform and Load Data in Power BI – Microsoft (Coursera)

Harnessing the Power of Data with Power BI – Microsoft (Coursera)

Excel Basics for Data Analysis – IBM (Coursera)

Introduction to Data Analytics – IBM (Coursera)

Programming for Everybody (Python) – University of Michigan (Coursera)