

Asif Shahzad

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 Portfolio  LinkedIn  GitHub

Profile

Passionate AI/ML Engineer and BSCS candidate at FAST NUCES, skilled in designing and deploying end-to-end machine learning pipelines. Experienced in Python and C++ development, with hands-on expertise in NumPy, Pandas, scikit-learn and TensorFlow. Proven ability to preprocess complex datasets, engineer features, and build predictive models that drive actionable insights and business impact.

Experience

Netsol Technologies

Python Developer Intern

- Wrote clear, efficient, and well-documented Python code for data processing and analytics pipelines.
- Developed and maintained backend services using FastAPI frameworks.
- Performed code reviews and collaborated with cross-functional teams.

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Data Scientist Intern

- Conducted exploratory data analysis (EDA) on large datasets using Python, Pandas, and SQL to uncover insights.
- Built and evaluated machine learning models with Scikit-learn to solve classification and regression problems.
- Created interactive data visualizations using Matplotlib, Seaborn, and Power BI for clear business storytelling.
- Preprocessed, cleaned, and engineered features to improve model performance and data quality.

Projects

Customer Segmentation

April 2025 – April 2025

- Conducted customer segmentation using K-Means clustering on retail data after data preprocessing.
- Applied K-Means clustering to group customers based on purchasing behavior and demographics.
- Visualized segments with Seaborn to derive actionable marketing insights.

FreshTrackAI – Smart Inventory Tracking System

Apr 2025 – Present

- Developed an AI-powered system for detecting food expiry dates via image recognition.
- Integrated real-time tracking alerts and a “Chef AI” recipe suggestion feature for near-expiry items.

Movie Hit Prediction

March 2025 – March 2025

- Built a Random Forest model with hyperparameter tuning (RandomizedSearchCV) to classify movies as hit or flop.
- Applied hyperparameter tuning using RandomizedSearchCV to improve model performance.
- Visualized performance metrics using Seaborn and Plotly.

Sales Dashboard in Power BI

July 2024 – Aug 2024

- Created a comprehensive sales dashboard in Power BI, including data extraction, cleaning, and transformation.
- Designed visual reports to highlight sales performance and key trends.

Education

FAST National University

2022 – Present

Bachelor of Science in Computer Science

Skills

- **Programming:** Python, C++
- **Libraries:** NumPy, Pandas, Seaborn, Matplotlib, Plotly, scikit-learn, tensor flow
- **BI & Visualization:** Power BI
- **Data Analytics:** ETL, data cleaning, statistical analysis

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 (Getting Started with Python) – University of Michigan (Coursera)