Asif Shahzad

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Profile

I am a dedicated BSCS student of FAST NUCES with a strong passion for harnessing the power of data to solve complex challenges. Proficient in C++, Python (Numpy, Seaborn, Matplotlib, Ploty, Pandas,scikit-learn) , I have a proven track record of collecting, analyzing, and visualizing data to provide valuable insights..

Projects

Customer Segmentation   April 2025 – April 2025

- Conducted customer segmentation using unsupervised learning techniques on a retail dataset.
- Preprocessed data by handling missing values and standardizing features for clustering.
- Applied K-Means clustering to group customers based on purchasing behavior and demographics.
- Visualized customer segments using Seaborn and provided actionable insights for marketing strategies.

FreshTrackAI – Smart Inventory Tracking System   Apr 2025 – Present

- Developed an AI-powered system that allows users to manually enter or scan food items to detect expiry dates using image recognition.
- Integrated real-time expiry tracking with alert notifications to reduce food waste and ensure timely usage.
- Implemented a "Chef AI" feature that suggests recipes based on available ingredients nearing expiration.

Movie Hit Prediction Using Machine Learning   March 2025 – March 2025

- Built a machine learning model using Random Forest to predict whether a movie will be a hit or flop.
- Applied hyperparameter tuning using RandomizedSearchCV to improve model performance.
- Visualized data using Seaborn and plotly.

Sales Dashboard in Power BI   July 2024 – Aug 2024

- This project involves the creation of a comprehensive sales dashboard using Power BI.
- The process includes extraction and transformation of data, followed by data cleaning to ensure accuracy.
- After preprocessing, I conducted data visualization to provide actionable insights into sales performance.

Education

BS Computer Science, FAST National University   *2022 – Present*
Relevant Courses: Programming Fundamentals, Object Oriented Programming, Data Structures, Computer Organization and Assembly Language, Probability and Statistics, Artificial Intelligence

Skills

Data Visualization: Microsoft Power BI, Seaborn, Plotly
Data Analytics: Basic knowledge of extracting, cleaning, and analyzing datasets to extract useful insights.
Programming Languages: Python (NumPy, Seaborn, Matplotlib, Plotly, Pandas, scikit-learn)

Online Courses & 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