# Asif Shahzad

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⟨⟩ Portfolio   in 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, with hands-on expertise in NumPy, Pandas, scikit-learn, TensorFlow and Open CV. Strong interest in Computer Vision and image processing, with proven ability to preprocess visual data and contribute to AI model training workflows.

## 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.

### WriteO

*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.

## 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.

Virtual Try-On System (Computer Vision)                                              **Apr 2025 – Present**
- Developed a computer vision-based virtual try-on system for clothing using image processing techniques.
- Implemented human pose estimation and image alignment to overlay garments accurately on user images.
- Utilized OpenCV for image preprocessing, background handling, and visual transformations.

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++
- **Computer Vision:** Image Processing, OpenCV, Image Annotation using ROBOFLOW
- **ML Libraries:** NumPy, Pandas, scikit-learn, TensorFlow
- **Visualization:** Matplotlib, Seaborn, Plotly, 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)