Fatima Noor

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Personal Profile

Computer Science graduate with hands-on experience in AI/ML and Computer Vision. Skilled in real-time object detection (YOLOv8), data preprocessing, and ML pipeline design. Experienced in remote collaboration and technical communication.

Technical Skills and Key Strengths

Languages	Python, SQL
ML & CV	YOLOv8, OpenCV, MediaPipe, Scikit-learn
Data Tools	Pandas, NumPy, Matplotlib, Streamlit
Databases	PostgreSQL, MongoDB
Platforms	Apache Airflow, Git, GitHub

Work Experience

May – July 2025

Data Quality Engineer, *DevSimplex (Remote)*.
Responsibilities:
- Implemented data validation rules and quality checks using Python and SQL to improve data accuracy.
- Profiled, cleaned, and transformed raw datasets to ensure consistency and usability.
- Identified anomalies in data pipelines and proposed solutions to maintain data integrity.
- Collaborated with data analysts and engineers to define and monitor data quality metrics.
- Explored tools like dbt and Great Expectations for automated data testing.
- Documented data quality procedures and created reproducible test cases.

Aug 2024 – March 2025

Python Developer, *SkyFi Networks, Rawalpindi*.
Developed and maintained Python-based applications; performed debugging, feature implementation, and code optimization.

Jun 2022 – July 2024

Founder & Technical Content Manager, *The Brilliance Pro*.
Managed technical content strategy, SEO optimization, and CMS (WordPress) operations for client websites and blogs.

Mar 2022 – May 2022

Technical Writer, *CodoLogics, Islamabad*.
Delivered technical documents and SEO-optimized content through in-depth research and collaboration with developers.

Aug 2021 – Oct 2021

Application Developer Intern, *National Engineering and Scientific Commission (NESCOM)*.
Participated in web application development, UI design, and technical documentation review to support execution teams.

Projects

Data Cleaning & EDA

Housing Data Preprocessing.

Cleaned and transformed a raw housing dataset to prepare it for machine learning tasks. Handled missing data using imputation techniques, removed outliers, and standardized numerical features. Encoded categorical variables using one-hot encoding and derived new features like house age and price per square foot. Performed exploratory data analysis (EDA) using Pandas and Matplotlib to uncover trends in housing prices, area distribution, and feature correlations. Presented key insights to guide model development.

Skills: Python, Pandas, Data Cleaning, EDA, Feature Engineering, Visualization.

ML Pipeline

Titanic Survival Prediction.

Built end-to-end ML pipeline: preprocessing, SMOTE balancing, feature scaling, and model evaluation with scikit-learn.

Skills: Python, Scikit-learn, SMOTE, Feature Engineering, ML Pipeline.

Computer Vision

PPE Detection Using YOLOv8.

Deployed real-time object detection for helmets and vests using YOLOv8 and OpenCV on video streams.

Skills: YOLOv8, OpenCV, Python, Object Detection.

Education

2017–2021 **BS Computer Science - University of Engineering and Technology (UET), Taxila.**.

CGPA: 3.68/4.00

Languages

Urdu Native

English Fluent; medium of instruction