MUHAMMAD AWAIS NAZIR

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SUMMARY

I am a highly motivated Software Engineering student at UET Taxila, passionate about AI, NLP, and Generative AI. With expertise in Python, Java, and C++, I have hands-on experience in machine learning, deep learning, web automation, and data analytics. I have developed AI-driven applications—ranging from object detection to Disease Detection—and built full-stack desktop and web Applications. Eager to learn and contribute to real-world problems, actively seeking internships to apply and expand my skills. I am particularly interested in Software Development, applying AI in Real World Problems, developing automation solutions using Python, exploring machine learning applications across various domains and Desktop Development .

TECHNICAL SKILLS

- **AI/ML:** Langchain, LLMs, Generative AI, Natural Language Processing & Digital Image Processing
- **Programming Languages:** Python, Java, C++, MATLAB
- **Machine Learning Frameworks:** Scikit-Learn, PyTorch, TensorFlow
- **Web Development:** HTML, CSS, JavaScript , MERN Stack (familiar, not expert)
- **Data Analysis:** Numpy, Pandas, Matplotlib, Seaborn
- **Databases:** SQL, Oracle Database, MySQL, MongoDB
- **Tools:** Git, GitHub, Docker
- Computer Science Fundamentals: Operating System, Database Management Systems (DBMS)

EDUCATION

Bachelor in Software Engineering   **Sep 2022 - Sep 2026**
University of Engineering & Technology (UET) Taxila - 6th Semester   **'Expected'**
- CGPA **3.61/4.00**

PROJECTS

Sign Language Recognition & Translation (Ongoing)   **End Semester Project**
Technologies: Python, OpenCV, Digital Image Processing, Machine Learning
Developing a system to recognize and translate sign language gestures into text/audio using Digital Image Processing and Machine Learning models. This project aims to enhance accessibility for the deaf community by providing an intuitive communication tool.

RoziRoti.pk – A Web Platform for Physical Freelancing   **End Semester Project**
Technologies: React, Node.js, Express.js, MongoDB
Developed a unique web application that connects local laborers (e.g., electricians, plumbers) with nearby customers through a click-based hiring system. This platform bridges the gap between skilled workers and customers, promoting digital transformation in physical freelancing.

Digital Wellbeing Companion – Desktop Productivity App
Technologies: Python, PyQt, SQLite
Built a desktop application to monitor screen time, track app usage, and provide productivity insights.
Integrated a Pomodoro timer, break reminders, and an intuitive GUI to help users maintain a healthy digital balance.

AI-Powered Auto-Player Detection for Call of Duty: Warzone
Technologies: Python, OpenCV, Digital Image Processing, Machine Learning
Trained a YOLOv8 object detection model to recognize enemy players in Call of Duty: Warzone.

Other Notable Projects
- **Automated Trading Bot** – Developed a bot that automates trades based on real-time market conditions using Python.
- **Laptop Price Prediction** – Built a machine learning model using scikit-learn to predict laptop prices based on features.
- **PDF Merge & Split Tool** – Created a Windows context menu tool for quick merging and splitting of PDFs using Python.
- **Train Reservation System** – Developed a JavaFX-based train booking system with Oracle Database for efficient ticket management.
- **Diabetes Prediction App** – Built a Streamlit-based web app for diabetes risk prediction using machine learning.
- **Uber Data Analysis** – Performed data visualization and insights extraction on Uber ride data using Pandas and Matplotlib.
- **Movie Recommendation System** – Implemented a content-based filtering recommendation system using Python.
- **Book Data Analysis** – Analyzed trends and patterns in book sales data using Python and data analytics tools.

CERTIFICATES

- Generative AI Concepts – DataCamp (Mar 2024)
- Introduction to Docker – DataCamp (Mar 2024)
- Microsoft Cloud Seekho – Microsoft Learn Student Ambassadors (Mar 2024)
- Python Programming – Coursera (Google Course) (Sep 2023)
- Supervised Machine Learning: Regression and Classification – Coursera (Stanford Online by Andrew Ng) (Aug 2023)

EXTRACURRICULAR ACTIVITIES

- **University Societies** – Active member of SoftDesk and AI Community Pakistan, which focus on technology, innovation, and knowledge sharing. My role includes both assisting fellow students in their learning journeys and expanding my knowledge too.
- **Student Organizations** – Part of Scholar Bridge Society, helping students stay informed about academic and career opportunities.
- **Cricket Enthusiast** – Enjoys cricket in my free time