Ahmad Baseer

Python Developer

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Profile

As a highly skilled and motivated individual with a strong command of core Python and artificial intelligence, with exceptional problem-solving skills and proven leadership qualities, I am eager to join an organization where I can utilize my knowledge and skills to their fullest potential. I am confident that my dedication and passion for the field, combined with my strong work ethic, will make me an invaluable addition to any team.

Education

B.S in Computer Engineering   **Oct 2020 – Aug 2024**
Sir Syed University of Engineering & Technology • Karachi, Pakistan
  CGPA: 3.53/4

Diploma in Artificial Intelligence   **Sept 2022 - June 2024**
Presidential Initiative of Artificial Intelligence & Computing • Karachi, Pakistan
  Percentage: 88%

HSC Pre-Engineering   **Oct 2018 - Nov 2020**
P.S.S.S.S Boys Degree College • Sanghar, Pakistan

Matriculation   **Oct 2016 - Nov 2018**
New Life Academy • Sanghar, Pakistan

Skills

• Microsoft Office	• API Development	• Data Structures	• Firebase
• Python	• Computer Vision	• UML	• Git
• SQL	• SSMS and MYSQL	• Machine Learning	• Docker
• C Language	• OOP	• Database Management	• Backend Development

Projects

• Final Year Project: 3D Mapping of Buildings for Inspection:
- Building inspections in the civil industry rely on expensive LiDAR systems, requiring specialized hardware, software, and professional expertise, leading to high costs.
- Developed a **photogrammetry** system to produce 3D models of indoor buildings, utilizing **IMU** to calculate **camera poses** for scale estimation and accurate real-world measurements.
- Nominated in multiple expos, cleared **FICS** stage 1, showcased at **ITCN Asia**, and attracted investment interest from renowned investors, including **Aspire Pakistan**, **Vertical Sols**, **NIC Karachi**, **Amps, and Volts**.

• Conversational Chatbot with Custom Knowledge Base:
- Developed an e-commerce chatbot using **Vertex AI**, trained on a text classification dataset to classify items and provide detailed information about listed objects, which required restructuring the dataset into **HTML** format.
- Implemented a fallback mechanism to handle out-of-scope queries effectively.

• Flask Based E-Learning Platform:
- A Flask-based backend application with **MySQL** integration, offering secure user authentication, session management, and course management. It enables **students** to browse, enroll in, take courses & quizzes and **teachers** to completely manage their courses.
- **Core Features & Tools:** User authentication and session handling via cookies, file upload with image processing (Pillow), HTML content parsing (**BeautifulSoup**), and MySQL for database management.
- Provides a robust and scalable backend for managing user sessions and course content securely, enhancing the overall learning experience with efficient content delivery and secure file handling.

• Hotel Recommendation System:
- Developed this system using **NLP** techniques on a dataset of **515k** rows from Europe, performing data preprocessing and feature engineering to prepare data in a valuable format and to reduce the dataset size to achieve **60%** faster outputs.
- Setup a **GitHub workflow** to automate the process of deployment to hugging face space.
- Created an intuitive front end with **Streamlit**, allowing users to input preferences and receive personalized hotel suggestions.
- Enhanced the interface with **CSS** and dynamic animations, improving visual appeal and user engagement for a more enjoyable hotel exploration experience.

• Iris Classifier using Unsupervised Learning:
- Performed exploratory data analysis (**EDA**) on the Iris dataset, ensuring data quality and optimizing feature selection for accuracy.
- Implemented **K-means** clustering with the elbow method and silhouette score to identify optimal clusters.
- Developed a Streamlit app for real-time Iris species classification based on user input, demonstrating effective model deployment.

• Retail Management System:
- **Tkinter** GUI application for billing, inventory, and employee management, with distinct admin/employee interfaces.
- Secure user authentication, dynamic billing with live inventory updates, and robust data management.
- Leverages core and external libraries (Tkinter, **SQLite3**, **scrolledtext**) for efficient GUI and database operations.

Awards & Certifications

- **Arduino Champ Runner Up,** Muhammad Ali Jinnah University   **2023**
- **AI For Everyone,** Coursera   **2022**
- **Introduction to SQL**, DataCamp   **2022**

Qualities & Strengths

- Ability to work by myself without need of constant supervision.
- Able to work harmoniously with other members of team.
- Possess strong problem solving & analytical skills.
- Strong Communication & Leadership Skills.

Reference

References will be available upon request.