

MAHRAIB FATIMA

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EDUCATION

University of Sahiwal 2022 - 2026
Bachelor in Computer Science, CGPA — **3.79/4.00**

Govt. Post Graduate College for Women 2020 - 2022
Intermediate in Computer Science - ICs, Grade: **A+**

SKILLS

Languages: Python, C#, C/C++, SQLite3
Technical Skills: Numpy, Pandas, TensorFlow, PyTorch, Scikit-learn, Keras
Developer Tools: Jupyter Notebook, PyCharm, Git/GitHub, VS Code,
Core: Machine Learning, Data Structures and Algorithms, Database Systems, OOPS.

EXPERIENCE

[Kaggle Contributor](#) Oct 2023 - Present
Kaggle *Remote*

- Utilized **Python**, **pandas**, **scikit-learn**, and **XGBoost** for data preprocessing, model training, and prediction generation in **Kaggle's competition**.
- Leveraged **exploratory data analysis (EDA)** techniques and **feature selection** to optimize model performance.
- Explore different approaches, validate results, and fine-tune model parameters.

PROJECTS

[Jarvis](#) (*Python, speech_recognition, pyttsx3, OpenCV, wikipedia, os, sys, webbrowser*)

- Functions as a **virtual assistant**, enhancing productivity and efficiency by performing a variety of tasks.
- Utilizes **speech recognition** and **text-to-speech technologies** for seamless interaction via voice commands.
- Streamlines **user experience** through automated responses and task execution.

[Expense Tracker](#) (**Python, Object-Oriented Programming, Data Structures, Input Handling**)

- Developed Python **expense tracker app** with menu-driven interface and error handling.
- Utilized **data structures** for efficient expense management and insightful summaries.
- Implemented features including **adding**, **editing**, and **deleting expenses** for enhanced user flexibility.

[Hangman Game](#) (*Python, Object-Oriented Programming*)

- Implements the Hangman game in **Python**, providing an interactive and enjoyable **gaming experience**.
- Utilizes Python programming techniques to generate random words, track player attempts, ensuring smooth **gameplay** flow and user engagement.

LEADERSHIP

- Head of **ML DEV society at University of Sahiwal** 2023 - Present