

MAHRAIB FATIMA

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EDUCATION

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

Govt. Postgraduate College for Women 2020 - 2022
Intermediate in Computer Science - I.Cs, 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

[Bytewise ML fellow](#) Jun 2024 - Nov 2024
[Kaggle](#) *Remote*

- Utilized **Python**, **pandas**, **scikit-learn**, and **XGBoost** for data preprocessing, model training, and prediction generation in **Kaggle's competition**.
- **Exploratory data analysis (EDA)** techniques and **feature selection** to optimize the performance of the model.

PROJECTS

[End-to-End Wine Prediction Model](#) (**CI/CD Pipeline, Model Predictions, Deployment**) [Demo](#)

- **MLOps** for effective, dependable and most of all- scalable model management.
- **CI/CD pipeline** to automate the entire process flow, including data preparation, model building, and model deployment.

[Spotify Playlist Downloader](#) (**Python, Spotify Web API, YouTube-dl, pandas, ffmpeg, Git**) [Demo](#)

- **Scrapped Spotify playlists** to extract song names, artists, and Spotify links, storing them into **CSVs**.
- Script to search for and **download mp3s** of the songs via **youtube** and store them in the playlist.
- Organize the **metadata** and folder structure for easy and accessible access to downloaded music files.

[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.
- Using **speech recognition** and **text-to-speech technologies** for seamless interaction via voice commands.

ACHIEVEMENTS

- **Problem-solving** enthusiast with **200+** solutions on **CodeForces** and **Leetcode**.
- Contributed to 10+ repositories in **GSSOC'24** **GSSOC Extd'24**.
- Head of **ML DEV society** at the **University of Sahiwal**
- **A+** in both **Metric** and **Intermediate**