

Muhammad Talha Amin

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Professional Summary

Data Science undergraduate with a strong foundation in Python and a growing interest in Machine Learning and AI. Through personal projects and coursework, I have developed practical skills in data analysis, introductory machine learning, and Python automation. I am eager to continue learning, collaborate with experienced engineers, and apply these skills during my upcoming Machine Learning Engineering Internship at FlyRank AI (starting July 1, 2026).

Education

Bachelor of Data Science (2025–2029)
Punjab University College of Information Technology (PUCIT)

Technical Skills

Programming: Python
Data Analysis: Pandas, NumPy
Machine Learning: Scikit-learn, Data Preprocessing, Model Evaluation (Beginner)
Visualization: Matplotlib
Automation: Selenium WebDriver
Tools: Git, GitHub, Jupyter Notebook, Google Colab, VS Code

Projects

Music Recommender Model

Technologies: Python, Pandas, Scikit-learn, Jupyter Notebook

Built a beginner-friendly music recommendation project to explore recommendation techniques, data preprocessing, and basic machine learning.

[https://github.com/Muhammad-TalhaAmin/Music-Recommender-Model/blob/main/music%20\(2\).ipynb](https://github.com/Muhammad-TalhaAmin/Music-Recommender-Model/blob/main/music%20(2).ipynb)

Musical Time Machine

Technologies: Python, yt_music API, Requests

Developed an application that recreates playlists from a selected historical date using the Spotify API and strengthened API integration skills.

<https://github.com/Muhammad-TalhaAmin/Musical-Time-Machine>

Password Manager

Technologies: Python, Tkinter, JSON

Created a desktop password manager for securely storing and retrieving credentials while learning GUI development and local data storage.

<https://github.com/Muhammad-TalhaAmin/Password-Manager-App>

GYM Booker

Technologies: Python, Selenium WebDriver

Built a browser automation script to simplify online gym booking and gain hands-on experience with Selenium.

<https://github.com/Muhammad-TalhaAmin/GYM-Booker>

Certifications

Google AI Essentials (Google)

- Built a foundational understanding of generative AI concepts, responsible AI practices, and practical AI applications for everyday and professional tasks.

Verify this Certificate at: <https://coursera.org/verify/professional-cert/UOQ6L9Q6CAHH>

Google Prompting Essentials (Google)

- Learned prompt engineering techniques for effectively interacting with AI models, including prompt design, refinement, and task-specific prompting strategies.

Verify this Certificate at: <https://coursera.org/verify/specialization/A56PGFXCGQ1Q>

Crash Course on Python (Google)

- Developed a strong foundation in Python programming, including data structures, functions, object-oriented programming, file handling, and automation fundamentals.

Verify this Certificate at: <https://coursera.org/verify/IITRF4GD7Z2A>

Pandas (Kaggle)

- Learned to manipulate, clean, filter, and analyze structured datasets using the Pandas library for data analysis tasks.

Intro to Machine Learning (Kaggle)

- Gained hands-on experience with the machine learning workflow, including data preprocessing, model training, validation, and evaluation using Scikit-learn.