Muhammad Hilal Aziz

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Professional Summary

Aspiring AI specialist and Python developer with 1.5 years of experience teaching Python from the basics to advanced levels (Python 3). Strong foundation in data science, machine learning, and web automation, with hands-on expertise in recommendation systems, predictive modeling, and API integrations. Pursuing a BS in Artificial Intelligence at FAST University, proficient in advanced Python libraries, data visualization, and backend development.

Education

BS in Artificial Intelligence	FAST University, 2022 - 2026 (Expected)
matriculation and Fsc	Cadet College Petaro, 2017 - 2022

Technical Skills

- **Python Development:** Python 3, PyCharm, Jupyter Notebook, Google Colab
- **Python Scripting & Automation:** Web scraping, automation with Selenium and Beautiful Soup, REST APIs
- **Data Science & ML:** Pandas, NumPy, Matplotlib, Plotly, Scikit-Learn, Seaborn, Deep Learning
- **Visualization Tools:** PowerBI, Matplotlib, Plotly
- **Backend Development:** Flask, WTForms, REST API development, SQL, SQLite, PostgreSQL, Authentication
- **Frontend Web Development:** HTML5, CSS3, Bootstrap 4, Web Design principles
- **Version Control & CLI:** Git, GitHub, Bash Command Line

Projects

- **Book & Movie Recommender Systems:** Built recommendation systems utilizing collaborative filtering algorithms in Python.
- **Voice Assistant:** Developed a Python-based voice assistant using Natural Language Processing (NLP) for task automation.
- **Customer Churn Prediction:** Created a deep learning model to predict customer churn with Keras and TensorFlow.
- **Spotify Playlist Automation:** Automated Spotify playlist creation with Selenium, using web scraping techniques for data gathering.
- **ISS Tracker & Stock Market Notifications:** Integrated APIs to receive Twilio SMS alerts on ISS location, weather updates, and Tesla stock news.
- **PowerBI Dashboards:** Developed data visualizations to present insights from datasets, emphasizing clear storytelling and data insights.

Experience

Python Coding Tutor
Taught Python programming (1.5 years) from beginner to advanced topics, including Python 3 fundamentals, scripting, and automation. Introduced students to IDEs such as PyCharm, Jupyter Notebook,

and Google Colab. Covered a range of Python applications: data science (Pandas, NumPy), web scraping (Beautiful Soup, Selenium), web development (Flask, WTForms), and machine learning basics. Assisted students with hands-on projects in Python, focusing on developing problem-solving skills and a solid understanding of Python programming and libraries.

Certifications

- Advanced Machine Learning & Deep Learning
- Python for Data Science