





# Muhammad Saad

 muhammadsaad.sps@gmail.com

 +92 331 7983073

 Bahria Town Phase 8 Sector L Rawalpindi

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## Profile

Highly motivated BS Artificial Intelligence student with a strong foundation in Python programming, backend development and a keen interest in AI/ML, Data Science, EDA, and NLP. Committed to continuous learning and professional development, with emphasis on innovation and quality.

## Professional Experience

06/2024 – 08/2024

**Game Developer**  
MindStorm Labs  
I was part of a game jam during this session. My team made a hyper casual Mobile game and by the grace of the Almighty, were 2nd runner up in the game jam.  
A great experience for me as someone working with game engines, game logics and game physics for the first time.

## Education

2023 – 2027  
Islamabad

**BS ARTIFICIAL INTELLIGENCE**  
*FAST NUCES*

- **Relevant Coursework:** Artificial Intelligence, Database Systems, Data Structures, Object Oriented Programming, Programming Fundamentals
- **Extra-Curricular Activities:** Love to do social work. This semester I was affiliated with a special education school and college (sir syed school and college of special education) mainly with their BFA class in teaching them the use of various AI's.

## Skills

**Programming Languages**  
Python, C++, C#, MySQL, HTML/CSS, JavaScript

**Automation Tools**  
Web Scrapping(Selenium, BeautifulSoup, Scrapy)

**Data Analysis and Visualization**  
Pandas, NumPy, Matplotlib, Seaborn

**Machine Learning**  
scikit-learn, TensorFlow, Keras

**Version Control**  
GitHub

**Databases**  
MySQL, Mongo DB, Firebase

**Operating Systems**  
Linux(Ubuntu), Windows

**AI/ML Libraries**  
scikit-learn, TensorFlow, Keras, OpenCV

## Projects

**Customer Review Analyzer**  
Python script that scrapes all the reviews of a specific restaurant. Sentiment analysis performed on each review, telling whether the review is positive, negative, or neutral. Competitive analysis also performed between two restaurants. Web Scrapping done by Selenium, BeautifulSoup. Visualization by Matplotlib and a user-friendly interface developed with flask.

**Smart Home Automation System**  
Designed and implemented a home automation system using C#, allowing remote control of appliances. Till now have only integrated camera but planning to integrate sensors and actuators to automate lighting and temperature control, enhancing energy efficiency.

**Street Fighter Agent/Bot**  
Created data by playing games of Street Fighter 2: Turbo. Performed EDA on the data, cleaned it, and converted it into windows of 6 for temporal context. Saved 12 different sets of weights with the same architecture, each fine-tuned with the character's dataset. Connected it to the game, successfully integrated and tested with the game environment.  
Libraries used **TensorFlow, PyTorch, Scikit-learn, Keras** and Data Handling via **Pandas**

**NASCON Event Website**  
Developed a university event portal incorporating advanced SQL features like subqueries, triggers, views, and events at the backend and front end is implemented on **node.js**. Connected a **MySQL** DB to a front end website making a functional, data storing website.

**Firestore-Based Timetable App (Flask + Firebase)**  
Created a Flask web app that fetches live Google Sheets data and allows students to view their timetables in real-time. Supports and uses Firestore as a real-time NoSQL backend.

**Predictive Modeling for Weight and CGPA Analysis**  
Using R made a multi linear regression model and ran it on a sample data and then predict the **CGPA** of anyone by entering constraints like study and sleep time etc.