Amaan Mujtaba Jaweed

+1 (585) 710 0694| amaanmujtaba@gmail.com | https://www.linkedin.com/in/amaanjaweed/ | https://github.com/amaanmujtaba

TECHNICAL SKILLS

- OOP| Python| JAVA | R | C | JavaScript | HTML | CSS | C# | C++ | MATLAB | SQL | MYSQL | Postgresql |NoSQL |
- Frontend |Backend | Full stack | TypeScript | React.js | Node.js| Express.js| Restful APIs| VS code |
- Cloud Computing| Distributed Systems | Software engineering | AWS | Azure | Docker| CI/CD | Agile | Git|
- Machine Learning| Data Mining |Deep Learning | Statistics| Hypothesis Testing |A/B Testing |ETL | Apache Spark |

EDUCATION

University of Rochester, *Rochester, NY* — *GPA: 3.82/4.0*
Master of Science in Computational Science: Data Science — **Dec 2023**

Osmania University, *Hyderabad, India* — *CGPA: 8.9/10*
Bachelor of Engineering in Computer Science — **May 2022**

WORK EXPERIENCE

Thomson Reuters- Software developer intern — May 2023- Aug 2023

- Developed a **multi-classification model** for **automating account mapping** using **blazing text algorithm**, achieving an accuracy of **92.6**.
- Designed and implemented a **full stack end-to-end machine learning web application** with **C# and .NET** Framework.
- Enhanced the multi-class classification algorithm in **AWS SageMaker**, improving accuracy by **120%** from an original accuracy of **42% to 92.6%.**

University of Rochester- Teaching assistant — Aug 2023- Dec 2023

- Assisted Professor Anson in teaching computation Introduction to Statistics in **R**, increasing class average by 5%
- Managed 8 teams of 4 through their final projects, by guiding them through **data analysis and hypothesis testing**.

ACADEMIC PROJECTS

University of Rochester Accounts Payable - Software developer — **Aug 2023- Dec 2023**

- Led the development of an algorithm using OpenAI's API for the extraction of invoice numbers from Excel files.
- Implemented an end-to-end automated email response system for efficient communication with suppliers, which reduced manual effort by **90%** and saved Accounts Payable approximately **700$ per month.**
- Collaborated with the team to design and implement a **Robotic Process Automation (RPA)** robot, completely automating tasks previously performed by a team of 4 employees.

Personality traits predictor — **Jan 2023- Apr 2023**

- Developed a robust Python model to analyze tweets and determine the personality traits of successful individuals.
- Built a **Twitter crawler** using the **Twitter API** to extract and organize tweets into a custom dataset.
- Visualized the results in the form of bar charts and pie charts using **matplotlib**.
- Increased accuracy of the existing model from **87% to 92.6%** by adding synonyms to the word cloud.

Deep Learning-Based Individual Profiling for Age and Gender Identification — **Sep 2022- Oct 2022**

- Designed and developed a **neural network** (**OpenCV**) to extract individual-level features from diverse datasets.
- Tested the model on a random dataset and obtained an accuracy of 92% for the age range and 98% for the gender.

SportsMania Tournament Management System — **May 2021- Oct 2021**

- Built a **web application** and an algorithm to manage 100% of the sports tournaments played at Osmania University.
- Implemented the front end with **HTML, CSS, and JavaScript**, while integrating 2-factor authentication for security.
- Developed the backend using **PostgreSQL** to store tournament data, results, ranking, and leaderboard.