

# Ali Jafri

+971-50-1124858 | [ali.jafri@nyu.edu](mailto:ali.jafri@nyu.edu) | [linkedin.com/in/ali-abdullah-jafri](https://linkedin.com/in/ali-abdullah-jafri) | [github.com/AliAbdullah0314](https://github.com/AliAbdullah0314)

## EDUCATION

### New York University Abu Dhabi

Abu Dhabi, UAE

*Bachelor of Science in Computer Science, GPA: 3.93*

*Expected May 2025*

- Relevant coursework: Data Structures, Algorithms, Computer Systems Organization, Software Engineering, Applied Internet Technology, Computer Networks, Operating Systems, Markets, Statistics, and Fintech Innovation.

## EXPERIENCE

### Analyst

July 2024 – Sep 2024

*General Motors*

- Analyzed key market trends and implemented web-scraping techniques reducing manual competitor research time by 90%.
- Trained a neural network-based machine learning model to predict sales volumes with 80% variance explanation, creating sales forecasts for 511 car models across 72 brands
- Created interactive PowerBI dashboards showcasing YoY growth for enhanced decision-making.

### Software Engineer

July 2023 – August 2023

*Bank AL Habib Ltd.*

- Collaborated with a team of 4 peers to develop a robust task management system, actively participating in all phases including requirements gathering, design, implementation, and testing.
- Gained hands-on experience with Service-Oriented Architecture (SOA) in a financial institution's dynamic environment.
- Successfully delivered the task management system that improved operational efficiency by 30%.

## PROJECTS

### Formula 1 Race Outcome Predictor | Python, PyTorch, LSTM, Transformers, FastF1 API

- Developed a machine learning system using LSTM neural networks and Transformers to predict Formula 1 lap times and race outcomes with high accuracy, correctly predicting podium positions for the 2024 Bahrain Grand Prix.
- Processed and analyzed comprehensive dataset spanning 203 races, 55 drivers, and over 214,000 individual lap records from 2014-2023.
- Implemented custom loss functions and model architecture in PyTorch, achieving precise top 5 finish predictions across multiple races.

### F1 Fantasy League | Express.js, Node.js, Vue.js, MongoDB

- Created a Formula 1 fantasy league application with real-time standings integration.
- Designed RESTful API endpoints and integrated the Ergast F1 API for real-time standings of 20 drivers.
- Built a responsive frontend using Vue.js and utilized MongoDB for data persistence.

### Qalb+ | Django, SQLite, Google Maps API

- Engaged in collaborative agile development with a group of 4 students to design a system that helps patients locate nearby treatment providers based on insurance eligibility and distance.
- Utilized Google Maps API for distance calculation. Django used for the backend and SQLite for the database.
- Showcased the system to experts in Software Engineering and Startups focusing on healthcare solutions.

### Task Management System | Vue.js, Quarkus, Flask, MySQL

- Developed a task management system using a multi-layered architecture. The system was deployed within Bank Al Habib's head office, revolutionizing inter-team communication and management.
- Used Vue.js and Tailwind CSS on the front-end, Quarkus (Java framework) as the middleware, and Flask to communicate with a MySQL relational database.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, HTML/CSS, SQL, Java

**Tools/Frameworks:** Django, Flask, Quarkus, Node.js, Vue.js, React, Tailwind CSS, MySQL, PostgreSQL, MongoDB, Git, Firebase, JavaFX, Pandas, NumPy, PyTorch, Scikit-learn, Jupyter, AWS