

# Ajwad Javed

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## Education

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**University College Dublin | Dublin, Ireland**

*Sept 2022 - Dec 2023*

MSc Computer Science (GPA: 3.63)

**NUST | Islamabad, Pakistan**

*Sept 2018 - June 2022*

BSc Double Major: Finance, Accounting, Minor: Computer Science

## Experience

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**Truck It In | Rawalpindi, Pakistan**

*January - July 2022*

**Data Scientist**

- Transformed manual workflows into an automated framework by establishing an efficient data pipeline leveraging Redash for data extraction, Python for processing, and Microsoft Excel for the final output
- Took initiative to contact the Government of Pakistan to open real-time access to the 26 million tons of cargo that lands at Karachi Port; developing a new dataset for the company to be fed into a future model for price predictions
- Compiled data from Pakistan Stock Exchange using Selenium, creating an open-source dataset with essential details specifically for the company's call center <https://github.com/ajwadjaved/PSX-Listed-Companies>

**Technical University of Kaiserslautern | Islamabad, Pakistan**

*March 2019 - August 2020*

**Research Assistant**

- Implemented Graph Neural Networks to extract tabular data from Financial Statements, creating an extensive dataset of 80,000 annual reports for ongoing lab research
- Collaborated with the University of Birmingham offering insights into the new "AI for non-STEM students" MSC programme by suggesting relevant modules and projects for prospective students
- Was Teaching Assistant for BSc CS-250 Data Structures course taught in C++. Managed a class of 50 students and designed all of their assessments and final examination, along with being a core part of the grading committee

## Projects

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**Tourify**

*May - August 2023*

<https://github.com/ajwadjaved/tourify>

- Developed a full-stack React, Spring Boot, and MongoDB-based app to gamify travel in Manhattan through NFTs
- Used NFT Port API to generate real-time AI images from HuggingFace to store in a OpenSeas blockchain wallet
- Built an XGBoost/Random Forest model predicting 93% accurate future busy-ness in curated Manhattan locations
- Optimized the React frontend to get a Lighthouse score of 90+ and decreasing startup load times by 45%
- Coordinated a team of 5, collaborated using GitHub and maintained a 11-week Agile Sprint board

**CycleSense Dublin**

*January - May 2023*

<https://github.com/ajwadjaved/cyclesense-dublin>

- Developed CycleSense, an app delivering real-time Dublin City Bikes tracking and predictive station availability
- Implemented a Python Random Forest model for precise bike availability forecast across 116 bike stations in Dublin
- Configured Flask server to handle AWS EC2 server and MySQL RDS bucket requests with SQLAlchemy and CronJob
- Implemented scheduled SQL queries fetching OpenWeather API data every 5 minutes for robust database operations

**FocusHacker**

*July - Sept 2023*

<https://github.com/ajwadjaved/focushacker>

- Developed an MVP of a modern full-stack productivity timer using React/Next.js, Django, Docker, and PostgreSQL, enabling advanced task tracking and efficient time management for users
- Implemented secure passwordless authentication using Django Magic Links. Worked on user profiles, security, optimization, error handling, responsive web design, and CRUD operations
- Working Analytics feature which visualizes total work time and identifies peak productivity hours in past work sessions

## Relevant Coursework

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Information Visualization, Software Engineering, Big Data Programming, Distributed Systems, Cloud Computing

## Certifications

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Amazon AWS Solutions Architect (SAA-C02)

*August 2022*

Deep Learning Specialization | DeepLearning.ai

*April 2020*