

Daksh Agrawal

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Relevant Experience

Academic Tutor & Demonstrator

Melbourne, Australia

THE UNIVERSITY OF MELBOURNE

Feb. 2024 - Present

- Taught Programming, Data Structures & Algorithms in Python and C to 100+ Students.
- Communicated Technical Concepts in engaging and simplified ways and got them excited about innovations & trends in Generative AI.
- Understood the needs of students from different backgrounds and helped them settle into the university life & learning environment.

Co-Founder and CTO

Udaipur, India

G7 SMART LOGISTICS

Jul. 2019 - Jun. 2022

- Led a team of 6 Software Engineers and UI-UX Designers to develop core products for a funded Start-up.
- Developed Mobile App, Web App and back-end used by 100K+ customers regularly to hire trucks and trailers (similar to Uber).
- Final products were built using Native Android, NextJS, Django, PHP, Firebase and Figma.

Education

The University of Melbourne

Melbourne, Australia

BACHELOR OF SCIENCE IN DATA SCIENCE

Jul. 2022 - Jun. 2025

- WAM 86.25 (Dean's Honours List 2023)
- Study Areas: Data Analysis, Machine Learning, Data Structures & Algorithms, Artificial Intelligence, Database Systems

Volunteering

Director of Education

Melbourne, Australia

DATA SCIENCE STUDENTS SOCIETY (DSCUBED)

Sep. 2023 - Aug. 2024

- Led and empowered a small collaborative team of 5 students to bridge the gap between traditional learning and cutting-edge technologies.
- Coordinated 8 Revision Workshops and 40+ Study Groups partnering with University Faculty, Tutors and other Student Clubs.
- Organised 2-week State level Hackathon (VicHack) with 200+ participants, \$3K worth of prizes, 15+ Industry mentors and Judges.

Skills

Technical Skills

- Data Science: Python, PySpark, Pandas, PyPlot, Numpy, SciKit Learn, TensorFlow, PyTorch
- Software Engineering: Java, C, C++, Web Development (React, JS, TS), Git, Android (Java, Kotlin), Django, Flask
- Data Analysis: R, PowerBI, SQL, Probability, Statistics, A/B Testing
- Blockchain: Cryptography, Cryptocurrencies, NFTs, Transactions, Smart Contracts and Solidity

Soft Skills

- Ability to learn and adapt technologies and methodologies quickly, honed via several projects for varying start-ups and non-profits.
- Proficient in Communicating Complex Ideas and Delivering Engaging Presentations, demonstrated as a University Tutor.
- Demonstrated collaboration and independent work in delivering widely acclaimed Workshops and Competitions via DSCubed Education Team.

Projects

Designing Strategic Taxi Distribution in NYC

Capstone Project

- Performed in-depth analysis of New York Taxi & Limousine data to maximise profitability for ride-share companies like Uber & Lyft.
- Designed a PySpark Machine Learning algorithm to predict zone-wise demand in NYC at particular times.
- Theorised an algorithm to generate optimal fleet movements to match demand and supply, specially during surge periods.

Samarpan Blood Directory

Volunteering

- Volunteered to develop a technological solution to arrange urgent blood donations during medical emergencies.
- Liaised with doctors and front-line workers to understand how emergencies unfold and how to seamlessly fit our product in the process.
- Developed a comprehensive platform for donors to register and medical professionals to send out SOS calls to compatible volunteers.

EcoZoom: Instant Sustainable Choices

Hackathon

- Developed an App to provide sustainability information about products using pictures to enable data-driven choices and correct disposal.
- Utilised Image Detection, LLMs and Local Waste Disposal Data to provide accurate Carbon Footprint, Water Footprint, and Disposal Guide.
- Winner of Sustainability & Environment Stream in CISSA CodeBrew 2023 among 30+ Teams.