

# Lorraine Sanares

0416919124124 | lorraine0554@gmail.com | www.linkedin.com/in/lorraine-sanares

## EDUCATION

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### Bachelor of Science, major in Data Science

Dec, 2025 - Dec, 2025

The University of Melbourne  
Melbourne, VIC

Relevant Coursework: Machine Learning, Artificial Intelligence, Linear Statistical Models, Database Systems, Algorithms and Data Structures, Statistics, Elements of Data Processing, Probability for Statistics

Awards: Kwong Lee Dow Young Scholar

## RELEVANT EXPERIENCE

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### Engineering, AI & Data Intern

Nov, 2024 - Dec, 2024

Deloitte, Melbourne, VIC

- Constructed a scalable AWS data pipeline for a financial institution leveraging Python (PySpark, Airflow), AWS services, and Docker, automating ingestion and orchestration with Airflow DAGs, and decreasing manual intervention by 80%
- Secured pipeline authentication and access by implementing IAM roles and AWS Secrets Manager, resulting in robust access control and encrypted credential storage
- Created client-facing documentation and PowerPoint presentations to clearly communicate technical workflows, leading to a reduction in onboarding time for stakeholders

## TECHNICAL PROJECTS

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### Club Analytics Dashboard

Feb, 2025 - Mar, 2025

Lead Developer & Designer, Melbourne, VIC

- Built a Streamlit dashboard for a university technology club integrating REST API's, reducing manual data search time by 90% and delivering key analytics to industry sponsors
- Developed a predictive attendance model leveraging past turnout data from 10+ WIT events—achieving 85% forecasting accuracy—which informed optimised event planning and cut resource over-allocation by 15%
- Analysed sentiment from 30+ survey responses using Python and visualised key insights in dashboards, enabling data-driven decisions across 2 club sponsors

### Portfolio Website

Jan, 2025 - Feb, 2025

Personal project, Melbourne, VIC

- Coded a personal portfolio website using TypeScript and Next.js, showcasing 3+ projects, achievements, and external links; enhanced discoverability and professional branding
- Designed a responsive UI with Figma and Tailwind CSS, ensuring optimised user experience across devices
- Deployed with AWS S3, CloudFront and Vercel, enabling continuous deployment and fast load times

### Athletic Performance Dashboard

Jun, 2024 - Jul, 2024

Personal project, Melbourne, VIC

- Built a dashboard using Python, Plotly and CSS to analyse running performance trends from Strava and Apple Health data
- Trained and evaluated a time series model with scikit-learn on 100+ past race pace entries to forecast future pacing trends; achieved a 12% improvement in prediction accuracy and supported data-driven race planning

## LEADERSHIP & ACTIVITIES

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### AI Engineer

Mar, 2025 - Present

Data Science Student Society (DsCubed), Melbourne, VIC

- Integrated a Discord bot with 3 LLM APIs (OpenAI, Claude, Gemini) by designing a modular interface for tool execution; facilitated seamless switching between models and improved bot reliability across 10+ test queries



- Created a modular Python ingestion class following the Medallion architecture to automate ETL of Discord data across bronze, silver, and gold layers, storing processed datasets in AWS Aurora RDS
- Developed a responsive landing page for AI@DSCubed with TypeScript, Next.js, and TailwindCSS; implemented Supabase backend to store 40+ email sign-ups securely and support outreach efforts

### **Education Director**

Sep, 2024 - Present

Women in Tech Unimelb (WIT), Melbourne, VIC

- Led a team of 5, organising meetings, delegating tasks, and coordinating workshop planning for learning initiatives
- Delivered 3+ technical workshops, incorporating industry insights by collaborating with students, professionals, and sponsors to improve student knowledge and career readiness

### **SKILLS AND INTERESTS**

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- Applications: GitHub, Tableau, PowerBI, Figma, R Studio, WordPress, Microsoft Excel, DataBricks
- Skills: Python, SQL, R, C, CSS, React.js, Next.js, Streamlit, Pandas, NumPy, Scikit-learn, Git
- Interests: Marathons, Data Engineering, LLM's and Automation Agents, UX/UI design