

Applied AI & AI Research

AI Solutions

Jan 2026 - Present

Affinda Group: Pathfindr Build Team and Affinda Internal Tools

- Delivered Azure OpenAI + RAG workflow automation for a member-based enterprise serving ~1.7M customers yearly; integrated with Microsoft SharePoint knowledge stores and CRM.
- Architected an AI-assisted intake and fraud-screening workflow for an ops platform handling ~1K inbound cases/month, integrating into preexisting architecture
- Productionised an internal LLM/NLP pipeline that converts performance-review data into actionable bottleneck rankings and upskilling recommendations to support rapid workforce scaling

AI Researcher

Jan 2025 - Present

- [ShiftBench](#): *A Benchmark for Certify-or-Abstain Decisions on PPV Under Covariate Shift*:
 - ICML 2026 CTB & WiML, sole author; built benchmark and per-cohort certify-or-abstain protocol on PPV with family-wise error control under covariate shift.
 - Zero false certifications across 19,600 trials over 38 datasets and 9 candidate methods.
- [FaceSafe](#): *Privacy-Compliant Inpainting Pipeline for Scalable Image Datasets*:
 - ICML 2025 WiML & DIG-BUG, first co-author; built a context-preserving inpainting pipeline enabling large-scale privacy-preserving facial dataset augmentation.
 - Mentored by a Meta FAIR researcher and an ML Researcher at Brown University (AlgoVerse Collaboration)
- MoE Router Interpretability:
 - Studying failure modes in MoE routers as toy models of latent misalignment, focusing on hidden misaligned experts and deceptive modes

Non-Research Experience

Consulting Intern

Dec 2023 - Dec 2025

Crysp Consulting, Australia

- Contributed to a cybersecurity RFP (~ \$250K) for government clients in APAC & EMEA regions
- Conducted threat analysis and drafted reports for organizations in the medical and health sectors
- Compiled and edited client deliverables and public material on cybersecurity risk assessments

Education

Bachelor of Science: Statistics & Stochastic Processes

Jan 2024 - Present

The University of Melbourne, Melbourne, Australia

- Relevant Coursework: Algorithms and Data Structures, Linear Algebra, Linear Statistical Models, Machine Learning

Skills & Interests

- Programming & ML: Python, PyTorch, TensorFlow, Scikit-learn, Hugging Face, PyTorch-Geometric, RDKit
- Technical Areas: Privacy-preserving ML, Evals, GNNs, SSL, Model Calibration & Uncertainty
- Research Interests: Model robustness, interpretability, statistical evaluation, and computational chemistry, mech interp, scalable oversight, robustness

Other Projects, Programs, Achievements, Leadership

- Technical Alignment Research Accelerator Participant - AI Safety Australia & NZ Member
- BlueDot Impact Technical AI Safety Course Certification
- Jane Street INSIGHT Trading Program Participant
- Kliqtek Scholarship Recipient of HEX Youth Entrepreneurship Program: Built credit scoring ML model (MAPE 1.88%), pitched ML-fintech startup; awarded full scholarship
- Trading Comps
 - Citadel Terminal APAC AI Strategy Competition: Quarterfinalist
 - Citadel Securities Trading Invitational (Top 20)
 - UBS x Morgan Stanley Finance Accelerator (3rd + 4th)
- Leadership: Sponsorship Director- HackMelbourne ('24-25), Publications Officer - Finance Students' Association ('24)