(0450) 558131 Melbourne, Australia wandabwa2004@gmail.com

Herman Wandabwa

Senior Al Scientist

https://wandabwa2004.github.io/ github.com/wandabwa2004 linkedin.com/in/wandabwaherman

Results-driven Senior AI Scientist with 7+ years of experience designing innovative AI solutions in highly regulated financial environments, specializing in Responsible AI governance, GenAI development, and predictive modeling. I excel at transforming complex business challenges into scalable technical implementations while ensuring strict compliance with regulatory requirements. My technical expertise spans Python, SQL, AWS, and large-scale data infrastructure, complemented by strong leadership skills in cross-functional collaboration and driving measurable business impact through data-driven decision-making.

SKILLS

Generative AI: Large Language Models (LLMs) Finetuning, RAGs and Agents development (https://bit.ly/462ck94)

Programming and Data: Python, SQL, Spark, Snowflake and AWS

ML & Analytics: Predictive Modeling, Experiment Design, Hypothesis Testing, A/B Testing

Project Management: Cross-functional Collaboration, Technical Leadership, Stakeholder Engagemement, Mentoring

AI Compliance: Responsible AI practices, Model Monitoring & Metrics

TECHNICAL EXPERIENCE

Senior AI Scientist

Commonwealth Bank

January 2024 - Present

Melbourne, Australia

- Responsible AI & Compliance: Designed and implemented a robust suite of LLM monitoring metrics for LLM-based applications to ensure Responsible AI compliance. This enabled proactive risk identification and data-driven enforcement for compliance and non-compliance feature reporting.
- Conducted research and developed an integration endpoint of large language models (LLMs) for multimodal data processing, enhancing system efficiency and scalability. Has so far enabled processing of approximately 6000 internal documents.
- Developed advanced data models, including a Home Loan Refinance Uplift Model and a Council Leads Expansion system, using predictive modeling and NLP techniques to unlock \$500M in potential revenue.
- Spearheaded the Rental Leads Expansion initiative, leveraging NLP and data transformation, leading to a 9% increase in investor-related leads.
- Collaborated with engineering and product teams to refine data pipelines and create data-driven features that align with business goals on the transaction embeddings project.
- Mentored junior data scientists, fostering a culture of continuous learning and innovation.

Data Scientist July 2022 - December 2023 Commonwealth Bank Sydney, Australia

Built a graph-based recommendation system for personalized customer product offerings, improving customer experience.

- Led churn modeling and uplift analysis for customer retention strategies, reducing churn rates by 12%.
- Designed and implemented Fraud/Scam Rules Optimization, saving \$10M annually by applying multi-objective optimization techniques.
- Pioneered the use of Generative AI to automate customer service processes, enhancing operational efficiency.

Senior Analytics Specialist

Tower Insurance

November 2021 - June 2022 Auckland, New Zealand

• Enhanced customer retention by 15% through predictive modeling improvements to customer journeys.

- **Developed an NLP-based support chatbot** streamlining internal support communications and improve operational efficiency.
- Transformed data insights into strategic recommendations, collaborating with marketing teams to implement initiatives that reduced customer churn.

Data Science Solutions Specialist

KiwiRail

November 2020 - November 2021

Auckland, New Zealand

- Developed the Ontime Performance predictive model in partnership with operations teams to streamline scheduling processes and improve service efficiency.
- Developed a linear programming tool for container allocation, increasing efficiency by 60%.
- Developed a customer forecasting model for weekly booking predictions, helping customer service planning.

EDUCATION