

Sujith K. Mandala

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[Kaggle \(Grandmaster\)](#)

[Google Scholar](#)

EXPERIENCE

Commonwealth Bank of Australia

Bangalore, India & Sydney, Australia (Hybrid)

Associate Data Scientist – Financial Crime Investigations

Feb 2026 – Present

- Architected and developed an end-to-end agentic AI framework for financial crime investigation, featuring orchestration between specialised sub-agents and Model Context Protocol (MCP) tools exposed as RESTful APIs, enabling automated customer insights generation at scale.
- Engineered multi-agent pipelines with LLM-driven summarisation layers and advanced prompt engineering strategies, incorporating context-window and memory management techniques (including episodic and semantic memory stores) to maintain coherent long-horizon investigative workflows.
- Designed and built a comprehensive evaluation suite for the agentic system, including LLM-as-a-Judge evaluators and custom domain-specific evaluators to assess output quality, factual grounding, and decision reliability across financial crime detection tasks.
- Developed reusable skill libraries and prompt templates aligned with financial crime investigation playbooks, standardising agent behaviour and improving consistency across diverse case types.
- *Technologies: Python, Agentic AI, MCP, LLMs, Prompt Engineering, Memory Engineering, RAG*

Associate Data Scientist – Financial Crime Modelling

Feb 2026 – Present

- Contributed to building the organisation’s first enterprise-scale AI models for financial crime detection, laying the foundation for fraud, AML, and risk assessment capabilities.
- Applied differential privacy techniques to develop secure, privacy-preserving AI systems for sensitive customer data.
- Collaborated with cross-functional stakeholders across Australia, including on-site workshops in Sydney, to deliver production-ready AI solutions.
- *Technologies: Python, LLMs, NLP, Differential Privacy, SQL*

Graduate Data Scientist

Sep 2024 – Feb 2026

- Researched, fine-tuned, and evaluated Vision-Language Models (VLMs) and Large Language Models (LLMs) for document fraud detection.
- Developed end-to-end agentic AI frameworks for change and migration risk assessment.
- Conducted model experimentation and optimisation to improve robustness, explainability, and performance.
- Recognised with an “Above Expectations” performance rating for two consecutive years (FY25 & FY26).
- Volunteered as a technical instructor, delivering AI, ML, and Generative AI training to graduates and analytics professionals across Bangalore, Sydney, Melbourne, and Adelaide.
- *Technologies: Python, VLMs, LLMs, Agentic AI, NLP*

Machine Learning Intern

Aug 2023 – Aug 2024

Axlmed

Boston, Massachusetts, US (Remote)

- Leveraged NLP techniques with LLMs (GPT, Gemini, Claude, Palm, Llama) to generate and structure medical information.
- Cleaned and analyzed large-scale datasets and built data retrieval pipelines using PubMed and other medical-domain sources.

AI & ML Engineer

Feb 2024 – May 2024

Scale AI (Contractor: Mercor)

Contract; San Francisco, California, US (Remote)

- Refined prompt engineering techniques and fine-tuned LLMs to improve data integrity and model performance across the Remotasks platform.
- Contributed to RLHF methodology development to improve model responsiveness to human feedback.
- *Technologies: LLMs, RLHF, Prompt Engineering*

Machine Learning Engineer & Modelling Lead

Feb 2023 – Mar 2023

Omdena

Contract; Irbid, Jordan (Remote)

- Led ML modeling for an Acute Lymphoblastic Leukemia detection project, achieving 95% classification accuracy.

- *Technologies: Python, Computer Vision, CNNs*

RESEARCH

- **Research Assistant, Harvard University & Massachusetts Institute of Technology** *May 2024 – Aug 2024*
Investigated and mitigated biases in LLM text generation across linguistically diverse medical contexts.
- **Research Intern, Carnegie Mellon University** *May 2023 – Aug 2023*
Applied machine learning and deep learning to identify subtomograms in Cryo-electron Tomography (CryoET) research.
- **Machine Learning Researcher, Artificial Neural Computing** *Jan 2023 – May 2023*
Applied AI/ML techniques to statistical modeling, thermodynamic systems, and bio-inspired algorithms.
- **Research Intern, NIT Karnataka, Surathkal** *Jan 2023 – Feb 2023*
Studied ML algorithms for identifying security breaches across IoT devices.
- **Undergraduate Researcher, The University of Texas at San Antonio** *Dec 2022 – Jan 2023*
Explored applications of diffusion models across diverse domains.
- **Computer Vision Researcher, The University of Sheffield** *Nov 2022 – Dec 2022*
Fine-tuned pre-trained computer vision models, including ImageNet and ResNet.

AWARDS & HONORS

- **Nominated, Top 7 AI Community Contributors** – Analytics Vidhya, DataHack Summit 2026.
- **Researcher Access Program Member, OpenAI** – Received \$1000 in GPT-4 API credits to support LLM research at MIT and Harvard.
- **1st Place, Kaggle Playground S3E6 (Paris Housing Price Prediction)** – Best RMSE among 702 competing data scientists.
- **Department Topper (Rank 1), IT Department, St. Martin’s Engineering College** – Top of a cohort of 200 students.
- **Kaggle Grandmaster** – Datasets Grandmaster recognition (as of April 2024).
- **Candidate Associate, The Operational Research Society (CandORS).**

PUBLICATIONS

- **Format-Controlled Multi-Scale JPEG Compression Response Analysis for Image-Level Compression-History Forgery Screening**
Published: 9th IEEE International Conference on Pattern Recognition and Artificial Intelligence (PRAI)
- **GeeksForGeeks:** Authored and improved 30+ articles on Machine Learning and Data Science (R & Python). [Link to Profile](#)

COMMUNITY IMPACT

- Published datasets and notebooks on Kaggle as part of an active Grandmaster-level profile, garnering 400,000+ views and downloads.
- Delivered AI, ML, and Generative AI training sessions to graduates and professionals across Bangalore, Sydney, Melbourne, and Adelaide.
- Authored and improved 30+ articles on Machine Learning and Data Science (R & Python) for GeeksForGeeks, garnering 350,000+ views and downloads. [Link to Profile](#)

EDUCATION

Degree	Institution	Grade	Year
B.Tech - Information Technology (Minor - AI & ML)	St. Martin’s Engineering College	9 CGPA	2020 - 2024
Diploma - Software Engineering	European Open University	100%	2021

RECOMMENDATIONS & CREDENTIALS

Available upon request. Letters of recommendation from previous employers and professors, plus a full list of [Certifications and Trainings](#), available on request.