Dhanesh Ramesh

Applied AI and Data Engineer

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Full working rights in Australia

PROFESSIONAL SUMMARY

Applied AI and data engineer completing a Master of Data Science and Decisions at UNSW. Builds Python and FastAPI services, retrieval and recommendation systems, data pipelines, React and TypeScript products, and AWS and Azure infrastructure. Work is supported by reproducible evaluation, automated tests and four publications with DOI records.

TECHNICAL SKILLS

Languages	Python, SQL, TypeScript, JavaScript, R
AI and ML	scikit-learn, PyTorch, Transformers, RAG, recommendation systems, model evaluation, time-series methods
Backend and data	FastAPI, Node.js, PostgreSQL, Redis, SQLAlchemy, Alembic, REST APIs, background jobs, ETL
Cloud and delivery	AWS, Azure, Docker, Terraform, GitHub Actions, CI/CD, managed identity, observability
Frontend	React, Vite, typed API clients, responsive product interfaces

EXPERIENCE

Finlo Tech | Founder / Lead Developer 2026 - Present

Sydney

- Designed a three-service financial decision platform spanning React and TypeScript, FastAPI orchestration and persistence, and Python modelling, with explicit contracts, authentication, tracing, queued training, artifact promotion and rollback.
- Reproduced a weakly supervised sentiment artifact on 557 event-title examples: 0.807 validation accuracy and 0.747 macro-F1.

Skilliphy (AUKUS Jobs) | AI Developer - NLP and Recommender Systems Jan 2025 - Present

Sydney

- Built a hybrid recommendation service combining resume evidence extraction, skill-graph rules, semantic inference, ranking, PostgreSQL, Cognito and versioned FastAPI endpoints.
- Established reproducible evaluation coverage across 60 structured skill-matching cases; explicit extraction records 0.968 F1 and 1.000 recall.

SILVERSEVEN | AI Research and Development Engineer Dec 2024 - Present

London, Remote

- Developed Azure-based retrieval and support workflows using FastAPI, Azure OpenAI, Entra ID, Blob Storage, Cosmos DB, governed document access, citations and deployment workflows.

Yeyro | Data and Automation Intern Jul 2025 - Present

Melbourne, Remote

- Automated marketing analytics and campaign-reporting workflows using n8n, SQL and Klaviyo, translating stakeholder requirements into repeatable transformations and KPI outputs.

KOSEC | Associate Analyst Intern 2025 - 2026

Sydney

- Produced market intelligence, company research and decision-focused financial reporting.

Bharat Electronics Limited | Software and Strategy Intern 2023

Bengaluru

- Worked on machine-learning detection of XSS and SQL-injection patterns and application-security analysis; the work connects to a later peer-reviewed security publication.

SELECTED PROJECTS

FiqueCSV API | Python, FastAPI, Pandas, Azure

- Built a streaming CSV and Excel enrichment pipeline and validated a 100,000-row enrichment flow across three repeatable runs with zero row loss and a 4.16-second median runtime.

ChaCha | React, TypeScript, Node.js, PostgreSQL, Redis, Terraform, AWS

- Built a marketing-operations platform with social publishing, analytics, media monitoring, email workflows, OAuth integrations, queued jobs and AWS infrastructure-as-code.

Mobility QA Benchmark | Python, JSONL, pytest

- Contributed benchmark design and evaluation tooling for spatial, temporal and point-of-interest reasoning over mobility data.

EDUCATION

University of New South Wales | Master of Data Science and Decisions | Sydney, Australia | 2024 - 2026

Visvesvaraya Technological University | Bachelor of Engineering - Information Science | India | 2020 - 2024

PUBLICATIONS

A Blockchain Proposal: Proof of Synergy | IEEE UPCON, 2023 | DOI

An Integrated Framework for Securing Web Applications | JISEM, 2025 | DOI

Analyzing Public Sentiment Towards LLM | IEEE IC-RVITM, 2023 | DOI

Exploring Contemporary Perspectives on the Implementation of Firewall Policies | IJMR, 2024 | DOI