

Eashwar Subramanian

Data Science Intern | Generative AI & ML Systems | Cloud & Data Platforms

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PROFESSIONAL EXPERIENCE

Data Science Intern Culture Infusion

Jan 2026 – Present
Melbourne, Australia

Data Science Intern Solara Health

July 2025 – Nov 2025
Melbourne, Australia

- Built the full ingestion and semantic chunking pipeline (PDF/HTML parsing, MiniLM embeddings, metadata governance, deduplication via SHA-256), enabling clinically reliable document retrieval across 3 data tiers.
- Designed tenant-aware retrieval logic using hierarchical routing (hospital → national → state) and PostgreSQL RLS, ensuring TGA-compliant information segregation across multi-hospital deployments.
- Implemented the end-to-end evaluation framework (RAGAS) generating quantifiable metrics for faithfulness (69.4%), answer relevancy (54.3%), context precision (92.7%), and recall (91.2%).
- Performed exploratory analysis on document distributions, metadata patterns, and retrieval behaviors, providing insights that guided chunking thresholds, embedding selection, and ingestion priorities.
- Led Sprint 4 delivery, resolving merge conflicts, coordinating Jira tasks, and unblocking the pipeline for cross-functional contributors.

Data Analyst Intern PrepInsta Pvt Ltd (Remote)

Dec 2023 – Feb 2024
India

- Delivered 5+ stakeholder dashboards (Tableau, Excel) increasing client engagement by 10%
- Optimized SQL query performance reducing data retrieval time by 25% for executive reporting
- Automated reporting workflows with Python (Beautiful Soup) cutting manual effort by 30%

PROJECTS

Solara Healthcare RAG System | July 2025 – Nov 2025

- Delivered a production-grade RAG system with semantic chunking, multi-tenant routing, ingestion governance, and hallucination controls, enabling clinically safe AI responses for Australian hospitals.
- Built a reproducible evaluation pipeline using RAGAS + semantic similarity proofs, producing measurable benchmarks (faithfulness 69.4%, context precision 92.7%, recall 91.2%) for ongoing model and retrieval improvement.

Australian Retail Customer Segmentation | June 2025

- Identified a high-value customer segment representing 15% of total revenue through K-Means clustering, supporting targeted marketing recommendations.
- Corrected 72.5% invalid order IDs in 5,000-transaction dataset enabling accurate RFM analysis

Climate Policy Forecasting Dashboard | July – Sept 2024

- Built SARIMA forecasting system achieving 1.2°C MAE for Australian government climate decisions
- Integrated Flask web app with interactive Folium mapping for urban planning stakeholder support

TECHNICAL EXPERTISE

Languages: Python, SQL, R

Cloud/DevOps: AWS (Bedrock, Aurora, S3, Lambda, EC2), Docker, CI/CD, Git

Machine Learning/ Analytics: RAG, Semantic Chunking (LlamaIndex), Sentence Transformers (MiniLM), RAGAS Evaluation, Scikit-learn, SARIMA, K-Means, Classification Models

Databases: PostgreSQL (pgvector, RLS, IVFFlat Indexing), MySQL, DynamoDB, SQL Server

Visualization: Power BI, Tableau, Matplotlib

Frameworks / Libraries: Fast API, Flask, Pytest, Pandas, NumPy, pdfplumber

Other Specialisations: Multi-Tenant Architecture, Safety Guardrails (AWS Bedrock), PII Redaction, Metadata Tagging, prompt engineering, retrieval evaluation, safety guardrails

EDUCATION

Master of Data Science

Royal Melbourne Institute of Technology (RMIT)

GPA: 3.6/4.0 | Dec 2025 | Melbourne, Australia

Bachelor of Electronics & Communication Engineering

Rajagiri School of Engineering and Technology

First Class Distinction (8.8/10) | Aug 2023 | Kerala, India

PROFESSIONAL DEVELOPMENT

Data Science Melbourne Meetup - Active Member

June 2024 – Present

Networking with 50+ analytics professionals | ML trends, Power BI, Python applications

In Progress: Microsoft Azure Data Fundamentals (DP-900) • Azure AI Fundamentals (AI-900)

Relevant Coursework: Machine Learning • Big Data Processing • Cloud Computing • Advanced Programming • Computer Vision • Probability & Random Processes