

# Eashwar Subramanian

Data Scientist | Machine Learning & Analytics | Cloud Data Systems  
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## SUMMARY

Early-career Data Scientist with hands-on experience designing and delivering end-to-end data, analytics, and machine learning systems. Experienced in collecting, cleaning, and structuring structured and unstructured data to generate decision-ready insights and support evidence-based decision-making. Skilled in building reproducible analytical workflows, monitoring data quality and model behavior over time, and applying statistical and machine learning techniques in real-world, evolving data environments. Known for a rigorous analytical approach, strong collaboration, and translating complex technical outputs into clear insights for cross-functional stakeholders.

## PROFESSIONAL EXPERIENCE

<b>Data Science Intern</b> Culture Infusion	Jan 2026 – Present Melbourne, Australia
<ul style="list-style-type: none"><li>Designing and implementing analytical workflows for monitoring public DEI-related signals, including careful data preparation, exploratory analysis, and insight validation across evolving sources.</li><li>Building automated data pipelines to collect and structure public signals (news articles, public statements, online discourse), enabling longitudinal analysis and comparison of cultural and sentiment trends over time.</li><li>Developing text-based analysis workflows to transform unstructured public content into standardized, analyzable datasets, supporting sentiment and thematic pattern analysis across time periods.</li><li>Contributing to early-stage analytics and data product development by shaping data schemas, validation logic, and monitoring outputs for internal decision-support tools.</li></ul>	
<b>Data Science Intern</b> Solara Health	July 2025 – Nov 2025 Melbourne, Australia
<ul style="list-style-type: none"><li>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.</li><li>Designed tenant-aware retrieval logic using hierarchical routing (hospital → national → state) and PostgreSQL RLS, ensuring TGA-compliant information segregation across multi-hospital deployments.</li><li>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%).</li><li>Performed exploratory analysis on document distributions, metadata patterns, and retrieval behaviors, providing insights that guided chunking thresholds, embedding selection, and ingestion priorities.</li><li>Led Sprint 4 delivery, resolving merge conflicts, coordinating Jira tasks, and unblocking the pipeline for cross-functional contributors.</li></ul>	
<b>Data Analyst Intern</b> Prepinsta Pvt Ltd (Remote)	Dec 2023 – Feb 2024 India
<ul style="list-style-type: none"><li>Delivered 5+ stakeholder dashboards (Tableau, Excel) increasing client engagement by 10%.</li><li>Optimized SQL query performance reducing data retrieval time by 25% for executive reporting.</li><li>Automated reporting workflows with Python (Beautiful Soup) cutting manual effort by 30%.</li></ul>	

## PROJECTS

<b>Solara Healthcare RAG System</b>   July 2025 – Nov 2025
<ul style="list-style-type: none"><li>Delivered a production-grade retrieval-augmented system with ingestion governance, multi-tenant routing, and evaluation controls, supporting safe and reliable information access in regulated healthcare environments.</li><li>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.</li></ul>
<b>Australian Retail Customer Segmentation</b>   June 2025
<ul style="list-style-type: none"><li>Identified a high-value customer segment representing 15% of total revenue using K-Means clustering, translating analytical outputs into targeted marketing recommendations.</li><li>Corrected 72.5% invalid order IDs in 5,000-transaction dataset enabling accurate RFM analysis</li></ul>
<b>Climate Policy Forecasting Dashboard</b>   July – Sept 2024
<ul style="list-style-type: none"><li>Built SARIMA forecasting system achieving 1.2°C MAE, supporting climate trend analysis for Australian policy and planning use cases.</li><li>Integrated Flask web app with interactive Folium mapping for urban planning stakeholder support.</li></ul>

## 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), Text Analytics & NLP (sentiment, thematic analysis), 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:** FastAPI, Flask, Pytest, Pandas, NumPy, pdfplumber  
**Other Specialisations:** Multi-tenant architectures, retrieval evaluation, metadata governance, PII-aware processing, safety guardrails, prompt engineering

## 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

<b>Data Science Melbourne Meetup - Active Member</b>	June 2024 – Present
Networking with 50+ analytics professionals   ML trends, Power BI, Python applications	
<b>In Progress:</b> Microsoft Azure Data Fundamentals (DP-900) • Azure AI Fundamentals (AI-900)	
<b>Relevant Coursework:</b> Machine Learning • Big Data Processing • Cloud Computing • Advanced Programming • Computer Vision • Probability & Random Processes	