

# 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. Skilled in collecting, cleaning, and transforming structured and unstructured data to generate actionable insights and support data-driven decision-making. Experienced in applying statistical and machine learning techniques, building reproducible analytical workflows, and translating technical outputs into decision-ready insights for cross-functional stakeholders. Known for a rigorous analytical approach, strong collaboration, and delivering reliable, high-quality analytical outputs.

## PROFESSIONAL EXPERIENCE

<b>Data Science Intern</b> Culture Infusion	Jan 2026 – Present Melbourne, Australia
<ul style="list-style-type: none"><li>Supporting data analysis and applied ML initiatives in the DEI and cultural analytics domain, demonstrating a committed approach to careful data preparation, exploratory analysis, and insight generation.</li><li>Contributing to the design and implementation of data pipelines for monitoring public signals related to DEI activity, including news articles, public statements, and online discourse.</li><li>Assisting with text-based analysis workflows while working flexibly across evolving data sources and research requirements to enable comparison of sentiment and thematic patterns across time periods.</li><li>Supporting early-stage analytics and data product concepts by structuring unstructured text data into analyzable datasets for internal 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> Preplnsta 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 RAG system with semantic chunking, multi-tenant routing, ingestion governance, and hallucination controls, enabling clinically safe AI responses for Australian hospitals.</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 through K-Means clustering, supporting 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 for Australian government climate decisions.</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 (LlamalIndex), 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 architectures, retrieval evaluation, metadata governance, PII-aware processing, safety guardrails, prompt engineering

## EDUCATION

<b>Master of Data Science</b> Royal Melbourne Institute of Technology (RMIT) GPA: 3.6/4.0   Dec 2025   Melbourne, Australia
<b>Bachelor of Electronics &amp; Communication Engineering</b> 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> 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	June 2024 – Present
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