

Krishnakanth Mohanraj

Data Scientist | Python · R · SQL · Power BI · Excel

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PROFESSIONAL SUMMARY

Data Scientist with over two years of experience transforming complex business data into actionable insights using SQL, Python, R, Power BI, and Excel. Experienced in analysing large datasets, developing interactive dashboards, building predictive models, and performing statistical analysis to support business decision-making. Strong background in data extraction, transformation, validation, exploratory data analysis, hypothesis testing, and machine learning through both industry and academic projects. Proven ability to work with technical and non-technical stakeholders to translate business requirements into analytical solutions. Currently completing a Master of Information Technology at Monash University.

TECHNICAL SKILLS

Programming & Modelling: Python, R, SQL, JavaScript

Machine Learning & Statistics: Forecasting, Regression Modelling, Exploratory Data Analysis (EDA), Trend Analysis, Statistical Analysis, Hypothesis Testing

Data Visualisation & BI: Power BI (DAX, Power Query, Power Pivot), Tableau, Dashboard Development, KPI Reporting, Data Storytelling

Data Engineering: ETL Pipelines, Data Modelling, Data Warehousing, REST APIs

Databases: PostgreSQL, MySQL, MongoDB, Amazon Redshift, DynamoDB

Cloud: AWS (Redshift, S3, Lambda, DynamoDB, API Gateway)

Professional Skills: Stakeholder Management, Business Requirements Analysis, Documentation, Agile, Jira

CERTIFICATIONS

- **AWS Certified Solutions Architect Associate** - Amazon Web Services (Issued June 2026, valid through April 2029)
- **AWS Certified Cloud Practitioner** - Amazon Web Services (Issued April 2026, valid through April 2029)

PROFESSIONAL EXPERIENCE

Analyst - Merkle DGS (Dentsu Global Services), Coimbatore, India

Nov 2022 - Jun 2024

Client: MarketCast

- Wrote complex **SQL queries** and **Python scripts** to extract, clean, and transform enterprise datasets, identifying business trends and root causes that supported **10+** recurring operational reports.
- Designed and developed interactive **Power BI dashboards** using DAX and Power Query on AWS Redshift data, enabling stakeholders to self-serve KPI reporting and reducing manual reporting requests by approximately **20%**.
- Implemented data validation, reconciliation, and quality assurance checks that identified inconsistencies before report delivery, improving reporting accuracy and reducing data quality issues.
- Built and automated Python-based data transformation pipelines for recurring reporting workflows, reducing report turnaround time by approximately **30%**.
- Partnered with **business stakeholders** to translate campaign performance and customer engagement questions into dashboards and analytical solutions, reducing ad hoc reporting requests and supporting **data-driven decision-making**.
- Documented data definitions, reporting logic, and transformation processes in a shared knowledge base, improving reporting consistency and onboarding for the analytics team.

Associate Analyst - Ugam Solutions Pvt. Ltd., Coimbatore, India

Jun 2022 – Oct 2022

Client: Hall & Partners

- Contributed to the development of a **Python-based machine learning model** that used historical sales data to forecast sales trends, supporting quarterly demand planning and business forecasting.
- Performed **data cleaning, preprocessing, feature engineering**, and **exploratory data analysis** on raw sales datasets, handling missing values, outliers, and inconsistent data formats.
- Conducted hypothesis testing in **R (t-tests, ANOVA)** to statistically validate key drivers of sales variation, confirming which factors had significant impact before including them in the forecasting model.
- Structured and optimized **SQL tables and queries** to support repeatable reporting and analytical workflows, replacing manual spreadsheet-based reporting processes.
- Built **Microsoft Excel** dashboards using **Pivot Tables and lookup functions** to present forecast outputs and sales trends for business stakeholders.
- Developed JavaScript REST API endpoints to integrate processed data with downstream reporting and business applications.

EDUCATION

Master of Information Technology - Monash University

2024 - 2026

Melbourne, VIC, Australia

Bachelor of Engineering, Computer Science and Engineering - SNS College of Technology

2018 - 2022

Coimbatore, Tamil Nadu

VISA

Australian Work Rights: Temporary Graduate visa - 485 with full-time work rights