

RAMYA M.

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Data & Business Analytics | Performance Analysis & Process Improvement

TECHNICAL SKILLS

Data Analysis: SQL, Python (Pandas, NumPy), R, Excel, statistical analysis, data validation, reconciliation, exploratory data analysis

Reporting & Visualisation: Tableau, Power BI, dashboard development, reporting

Business & Operations: Performance analysis, cost analysis, root-cause analysis, process improvement, stakeholder collaboration

Tools: Git, GitHub, SQLite

PROFESSIONAL EXPERIENCE

Product Lifecycle Management, Business & Data Analytics - Illumina, Singapore

Apr 2022 – Aug 2024

- Proposed and drove a cost-saving initiative to replace a high-cost material with a lower-cost alternative, **delivering SGD 200K in annual savings** through data-driven evaluation and process optimisation.
- Investigated production discrepancies and recurring operational issues using SQL, historical process data and root-cause analysis, helping stakeholders identify underlying causes and determine appropriate corrective actions.
- Identified opportunities to streamline reporting and validation workflows, implementing SQL-based automation that **eliminated 6–8 hours of manual work per week** while improving data consistency and reporting efficiency.
- Synthesised incident and escalation metrics into stakeholder updates, highlighting operational trends and supporting prioritisation and cross-functional resolution of production issues.

Data Science and Research Intern - Animal Minds Lab, UAB

Apr 2025 – Jul 2025

- Investigated behavioural patterns across 60,000 observations to understand testing-session utilisation and identify opportunities to improve access to a limited testing resource.
 - Developed a motivation-based prioritisation framework using session frequency, success rates and predictive modelling to inform how testing opportunities could be allocated.
 - Translated quantitative findings into an operational decision framework, providing a structured alternative to first-come-first-served access.
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SELECTED PROJECTS

Inside the ASOS Catalogue | Python

Analysed 29,990 product listings to assess assortment concentration, brand representation and price positioning, uncovering catalogue-level patterns and translating findings into actionable commercial questions around product mix, pricing and competitive positioning.

Hospital Inventory Analysis | SQL, SQLite, Power BI

Built a relational database for 500 inventory records across three vendors and a dashboard highlighting stock levels and replenishment needs.

EDUCATION

Universitat Autònoma de Barcelona

Sep 2024 - Sep 2025

MSc Modelling for Science & Engineering (Data Science)

Relevant Coursework: Mathematics for Big Data · Optimisation · Data Visualisation & Modelling · Distributed Systems · Applied Modelling & Simulation · Partial Differential Equations · Parallel Programming · Statistics

Singapore Institute of Technology

Sep 2018 - Dec 2021

BEng Pharmaceutical Engineering (Honours)

ADDITIONAL EXPERIENCE & CERTIFICATIONS

WiseWomenCode | Wise Singapore

Mar 2026

Participated in a competitive fintech immersion programme, collaborating on user-centred product challenges and gaining exposure to digital banking operations, product development and cross-functional problem-solving.

University Orientation & HR Leadership | Singapore Institute of Technology

Jan 2019 - Sep 2019

Supported recruitment and screening, interview and onboarding coordination, team logistics and event communications.

Certification

HubSpot Academy – Digital Marketing Certification