Vinothini Balasubramani

Data Analyst

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Data Analyst with 5+ years of experience across business intelligence, supply chain analytics, data integration, and web development. Skilled in Python, R, SQL, Power BI, and SAP integrations, with expertise in workflow automation, predictive modeling, and dashboard design. Adept at turning complex datasets into actionable insights that enhance operational efficiency, governance, and decision-making.

CORE SKILLS

Tools: Power BI, Looker Studio, Tableau, Google Apps Script, MS Excel
Programming: Python, R, SQL, SAS
ETL & Integration: SAP CPI, SAP PO, Oracle, MySQL
Web Development: HTML, CSS, JavaScript, Angular
Techniques: Data Cleaning, Forecasting, KPI Dashboarding, A/B Testing, Automated Reporting, Machine Learning

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EMPLOYMENT HISTORY

Data Analyst
Assay Genie, Dublin, Ireland | Jan 2024 - Mar 2025

- Automated product data workflows via Apps Script, improving report accuracy and reducing manual work by 60%.
- Built **forecasting models in Python**, increasing inventory accuracy and reducing overstock by 25%.
- Developed a **Flask-based app** to generate product datasheets, cutting documentation workload by 70%.
- Optimized 60+ product web pages using HTML/CSS, improving user engagement and visibility.
- Designed **Looker Studio and Power BI dashboards** on supply chain and sales performance, enabling stakeholders to make decisions 15% faster.
- **Automated weekly reporting** by fetching and processing data from the Cin7 API in Python, saving 8+ hours/month for the leadership team.
- Introduced **process documentation** for automated workflows and dashboards, ensuring transparency, reusability, and alignment with governance standards across teams.

Data Integration Analyst
Tech Mahindra, Chennai, India | Apr 2020 - Jun 2022

- Developed 50+ **SAP CPI/PO integrations**, reducing sync errors by 40% and improving system efficiency.
- Executed optimized SQL scripts to ensure reliable data loads across **Oracle database**.
- Resolved 100+ **EDI transformation** issues, increasing integration uptime and reducing incident volume by 35%.

Full Stack Developer
Tech Mahindra, Chennai, India | Jun 2018 - Mar 2020

- Developed responsive UI components using Angular, HTML, and JavaScript for a major telecommunication client's internal application.
- Enhanced backend processes using **Java and MySQL** for a banking client, improving query performance by 20%.
- Collaborated with **QA and DevOps** teams to ensure smooth feature rollouts, maintaining a 98% deployment success rate.

EDUCATION

MSc in Data and Computational Science, Sep 2022 - Aug 2023
University College Dublin, Ireland
GPA: 3.29 (2H1)
- Relevant Coursework: Applied Matrix Theory, Modern Regression Analysis, Bayesian Analysis, Statistical Machine Learning, Numerical Algorithms, Predictive Analytics
- Capstone: Built an R-based model to analyze COVID-19 vaccination impact

Bachelor of Engineering in Mechatronics, Aug 2013 - Apr 2017
SNS Institutions, India
GPA: 8.3/10

CERTIFICATIONS

Google Data Analytics | Oct 2023
Data Visualization using PowerBI | Sep 2023

PROJECTS

COVID-19 Vaccination Impact Analysis (R)
- Built **regression-based predictive model** to analyze vaccination impact, applying anomaly detection to track deviations in infection trends and support risk-focused public policy decisions (MSE: 0.0702).
- Created detailed visualizations to support public policy evaluation.

Rainfall Trend Dashboard (R)
- Developed time-series models on 10+ years of rainfall data, incorporating **anomaly detection** for extreme events and dashboards to support agriculture and infrastructure risk planning.
- Provided actionable insights into agriculture and infrastructure planning.

Irish Weather Insights Dashboard (R Shiny)
- Designed **interactive R Shiny dashboard** to monitor weather trends across Dublin, Belmullet, and Malin.
- Integrated historical data to track temperature, humidity, wind speed, and precipitation.
- Enabled city-level comparison and trend forecasting for tourism and environmental monitoring.

AWARD

Bravo Award, Tech Mahindra |Aug 2020
Awarded for outstanding contribution to SAP data integration and proactive issue resolution.