RACHEL COORAY

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PROFESSIONAL SUMMARY

First Class Computer Science graduate with industry experience in data science, analytics, and full-stack development. Strong communicator who translates complex data into actionable insights, optimizes business processes, and builds end-to-end solutions. Solid foundation in business analytics, enabling alignment of technical solutions with strategic objectives.

Career Interests: Data Science · Machine Learning · Business Analytics

EDUCATION

University of Westminster, United Kingdom
BSc (Hons) Computer Science (September 2022 - July 2025)
First Class Honours, Specialized in Data Science
Scholarship: UOW/IIT School of Computing and Engineering Scholarship (2024/25)
Awards: 3rd Best Research Project at University Showcase, IEEE ICAHS 2025 Conference Publication in Tunisia.
Membership Activities: Rotaract Club, IEEE Club, Sri Lankan Society

Chartered Institute of Management Accountants, United Kingdom
CIMA Certificate in Business Analytics (August 2024)
Covered Economics, Management and Financial Accounting, Business Law and Corporate Governance

St. Bridget's Convent, Colombo 07, Sri Lanka - Primary and Secondary Education
GCE A/L Examination (2021): Chemistry - A, Combined Mathematics - B, Physics - B
GCE O/L Examination (2018): 9 Distinctions (A Grade)
Leadership and Activities: School Head Prefect (2020), Swimming Team, Interact Club

WORK EXPERIENCE

Data Science Intern - OCTAVE, John Keells Group, Sri Lanka (October 2025 - Present and March 2022 - June 2022)
- Optimized distributor performance by identifying underperformers and high-potential distributors, designed KPI-driven incentive structures that increased potential margins by 68% for an FMCG company.
- Ran advanced margin and sales-incentive simulations, uncovering actionable strategies to recapture lost sales in flood-affected outlets.
- Developed interactive Power BI dashboards for management, enabling real-time tracking of targets, achievements, and distributor performance, improving decision-making speed.

Data Engineering Intern - London Success Academy, UK (September 2025 - October 2025)
- Built complete ETL pipelines on GCP for clickstream and transaction data, delivering analytics-ready datasets for business intelligence.
- Scaled data processing using PySpark and Parquet partitioning, improving query efficiency by 40%.
- Produced insights on revenue, daily active users (DAU), and conversion funnels, enabling data-driven business strategy and growth decisions.

Analytics Delivery Intern - OCTAVE, John Keells Group, Sri Lanka (March 2023 - May 2023)
- Built Power BI dashboards for stakeholders to visualize sales performance and route efficiency.
- Conducted field observations and proposed improvements, enabling effective rollout of new processes and data-backed decisions.

REAL WORLD PROJECTS

PCOS Care - Machine Learning-Based PCOS Risk Prediction Web Application
Conference Publication | Final Year Project | Deployed ML Web Application
- Applied feature selection (Chi-Square, ANOVA), SMOTE, and dual-model prediction, achieving 93.75% recall with the enhanced Random Forest model.
- Created dashboards and visualisations to communicate model results and user trends to non-technical audiences, improving usability and decision-making.

Futsal Team Recommendation and Booking Mobile Application
Collaborative and Content based Filtering Recommendation System

- Developed a Flutter app that matched players to teams by skill, availability, and location, reducing team assembly time significantly.

- Centralized stadium booking with real-time availability, pricing, and management, streamlining match organization for users.

CSR Analytics Project - Street Vendors
Data Collection and Analysis CSR Initiative

- Led a field survey of 16 street food vendors, uncovering critical hygiene gaps and operational inefficiencies affecting food safety and customer experience.

- Delivered data-driven interventions adopted by the CSR team, improving hygiene standards, resource allocation, and vendor business practices.

SKILLS

Data and Visualization
Python, R, SQL (MySQL, PostgreSQL), BigQuery, Pandas, NumPy, scikit-learn, PySpark, ETL pipelines, Power BI, Excel, Matplotlib, Seaborn, Streamlit

Programming and Development
Java, Dart, Flask, Node.js, HTML/CSS/JavaScript, Flutter, Google Cloud Platform, GitHub

Business and Soft Skills
Business Analytics, Stakeholder Communication, Agile Teamwork, Data-Driven Decision Making

ADDITIONAL WORK EXPERIENCE

Customer-facing and support roles in retail, services, and education, demonstrating strong communication, teamwork, and stakeholder interaction skills.

1. Freelance, **Full-stack developer** (September 2025 - Present)
2. UNIQLO, UK - **Customer Advisor** (August 2025 - October 2025)
3. EG on the Move, UK - **Customer Service Associate** (January 2025 - August 2025)
4. TK Maxx, UK - **Retail Associate** (November 2024 - January 2025)
5. Clear Links Support Ltd. UK - **Support Worker** (October 2024 - April 2025)
6. St. Mary's Church, Sri Lanka - **Class Teacher** (August 2022 - August 2024)