

# 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.

## 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.

- Built an end-to-end ML web app with Python, Flask API, and Streamlit, deployed and user tested.

### 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**

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### **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**

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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)