

# SOLOMON SUNDARRAJ E

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## Career Objective

Results-driven Data Science graduate skilled in Python, SQL, machine learning, and data visualization. Seeking to leverage analytical skills, statistical modeling, and data-driven decision-making to solve business challenges and tech-driven environments.

## Internship Experience

### HCL Technologies – Data Science Intern (Dec 2024 – Feb 2025)

Developed an AI-driven product quality monitoring dashboard using Python, Streamlit, and XGBoost to predict and analyze defect trends across manufacturing lines. Integrated interactive visualizations for real-time defect tracking, supplier quality analysis, and production efficiency insights. Built a responsive interface with dynamic filters, anomaly detection, and exportable reports to empower data-driven decision-making in quality control.

## skills

**Languages:** Python, R, SQL | **Tools & Libraries:** NumPy, Pandas, Matplotlib, Streamlit | **Platforms:** MS Excel, Power BI, MySQL, | **Core:** Machine Learning, Data Visualization, Data Analysis | **Soft Skill:** Problem Solving, Critical Thinking, Teamwork, Flexibility, Leadership, Communication.

## Projects

### Student placement prediction– Machine learning

Built a machine learning model using logistic regression to predict student placement outcomes based on academic and personal attributes. Achieved high prediction accuracy by analyzing key features like GPA, skillsets, and internships. Designed an interactive dashboard to help institutions and students make informed, data-driven decisions.

### Product Quality Monitoring Tracker– Python, Streamlit

Built a product quality monitoring dashboard using Python, Streamlit, and XGBoost to track and predict defects. Implemented real-time visualizations, supplier analysis, and anomaly detection for data-driven quality control. Enabled dynamic filtering and exportable reports to support efficient manufacturing decision-making.

## .Certifications

- Introduction to Data Science
- Introduction to Generative AI
- Database Management System

## Activities

- Led the Sense and Science Club as Event Coordinator, organizing inter-college competitions to foster innovation, teamwork, and scientific curiosity.

## Education

M.Sc. Data Science and Business Analysis – CGPA: 7.6

Rathinam College of Arts and Science | Coimbatore | TN (Sep 2023 – May 2025)

B.Sc. Information Technology – CGPA: 8.0

Pope's College of Arts and Science | Tuticorin | TN (Oct 2020 – May 2023)