

# RUFFINA MERCY S

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## SUMMARY

Final-year Computer Science student with a strong foundation in software development, data structures, algorithms, and database management. Passionate about building efficient, scalable applications and contributing to innovative solutions within Agile, cross-functional teams.

## SKILLS

**Languages & Concepts:** Python, Java, SQL, OOP, DSA, DBMS  
**Databases:** MySQL, MongoDB, Snowflake  
**Data Engineering:** Apache Airflow (basic), Docker (basic), GitHub Actions  
**Libraries & Tools:** Pandas, Snowpark, Streamlit, Power BI  
**Development Practices:** Git, Agile

## WORK EXPERIENCE

**Hindustan Aeronautics Limited (HAL)** Apr 2025 - May 2025  
*Bengaluru*

**Intern - Data Analyst**

- Performed data quality audits, root cause analysis, and traceability checks for sensor-based workflows.
- Developed structured documentation and testable workflows to maintain clean, auditable records.
- Tech Stack:** Python, SQL, Excel, Power BI

**Indian Institute of Astrophysics** Apr 2024 - May 2024  
*Bengaluru*

**Intern - Front-End Software Development**

- Developed and tested a secure GUI with access controls, system logging, and **real-time monitoring**.
- Designed and refined **actuator control module test** cases in Agile sprints, ensuring SDLC compliance with Git.
- Tech Stack:** wxPython, wxFormBuilder, Python, Arduino, Agile, SDLC

## PROJECTS

**End-to-End Supply Chain Forecasting Pipeline** Jun 2025

**Technologies:** Python, SQL, Snowflake, Apache Airflow, Streamlit

- Built a system that uses over 58 million records to **predict supply chain trends**, showing the results on an interactive dashboard.
- Deployed a **containerized** and version-controlled MLOps deployment workflow.

**Online Advertising Analytics Dashboard - Power BI Project** Mar 2025

**Technologies:** Power BI, DAX, Data Visualization, GitHub

- Validated marketing KPIs and ROI metrics by testing with simulated multi-channel datasets.
- Applied DAX to transform raw data into actionable insights and verified transformations for accuracy.

**Community Management Mobile Application** Nov2024

**Technologies:** Thunkable, Google Sheets, Cloudinary, Git, GitHub

- Developed and tested a **SaaS-style mobile app** for members, events, donations, and media sharing.
- Integrated Google Sheets for **real-time data validation** and Cloudinary for media storage testing.
- Worked in a team with the NGO following **Agile methodology**, delivering features in sprints.

## CERTIFICATIONS

**SQL Bootcamp** - Udemy  
**Data Visualisation** - Forage  
**Full Stack Foundation - Core Java** - L&T EduTech  
**E-Business** - NPTEL Swayam  
**World's Largest Hackathon** - Devpost & Bolt  
**Google Cloud Agentic AI Day** - Hack2skill

## EDUCATION

**Bachelor of Technology (B.Tech) in Computer Science - Data Science** 2022 - Present  
*Christ (Deemed to be University), CGPA: 7.88*