

# Ross Dmello

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## HIGHLIGHTS & INTERESTS

Final-year Computer Engineering student (2026) with a strong foundation in data analysis, data modeling, and statistical methods. Proven ability to transform raw data into actionable insights and meaningful business decisions, with skills in **Python**, **SQL**, and **BI tools** like Power BI and Tableau. Recognized for strong analytical thinking, problem-solving, and communication skills, with a passion for building scalable, data-driven solutions.

## EDUCATION

**Fr. Conceicao Rodrigues College of Engineering**

2022-2026

Bachelor of Engineering in Computer Engineering

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Software Engineering, Web Technologies, Cloud Computing

## Achievements & Certifications

### ACHIEVEMENTS

Winner - HackSpear 2025

(Built an AI healthcare solution under 24-hour time constraints; improved diagnosis accuracy by 15% in test cases)

Grand Finalist (Runner-up) - Smart India Hackathon 2024 (SIH), Ministry of Education, Govt. of India

(Systematized Threat Intelligence Platform processing 50+ data sources; reduced manual analyst effort by 40%)

### CERTIFICATIONS

- [Google Cloud Data Analytics Certificate](#)
- [AWS Academy Cloud Architecting](#)
- [AWS Academy Machine Learning for Natural Language Processing](#)
- [Python Data Structures \(University of Michigan - Coursera\)](#)
- [Meta Android Mobile Application Development – Coursera](#)

### Technical SKILLS

- **Languages:** C++, Python, SQL, JavaScript, ReactJS, HTML/CSS, R
- **Frameworks & Concepts:** REST APIs, Flask, Pandas, NumPy, scikit-learn, Selenium, OOP, ETL Pipelines, Machine Learning, NLP
- **Tools & Platforms:** Docker, Git/GitHub, AWS (S3, EC2, Athena), Google Cloud Platform, Power BI, Tableau, Looker Studio
- **Soft Skills:** Problem-Solving, Adaptability, Teamwork, Critical Thinking, Communication, Time Management, Analytical Thinking

### Experience (Academic & Projects)

#### AI-Driven Medical Diagnosis Prediction System | Personal Project - February 2025

- Engineered a full-stack medical diagnosis web application with ReactJS and a Flask backend, deployed on AWS EC2 to serve over 200 users with sub-2-second response times.
- Implemented a RESTful API to integrate Decision Tree and Random Forest models, achieving 82% diagnostic prediction accuracy.
- Created a reusable ML pipeline improving training efficiency by automated preprocessing and hyperparameter tuning.

#### Automated Threat Intelligence Data Analytics Platform | Personal Project - June 2024

- Engineered a containerized Python ETL pipeline (Docker) to automate the ingestion of 1000+ daily cybersecurity records from 50+ sources, storing and normalizing the data in an AWS S3 data lake.
- Utilized AWS Athena to query the data lake, and applied K-means and DBSCAN clustering to detect anomalies, reducing analyst workload by 40% and improving incident response times by 20%.
- Led a 5-member team to design and implement interactive reporting modules, improving knowledge sharing and operational transparency.