

# Rajvardhan Das


## Data Scientist

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## Professional Summary

Data Scientist with 1+ year of experience building and deploying production-grade Generative AI and machine learning systems in regulated banking environments. My work is AI-engineering focused, spanning Python development, LLM architectures, and cloud platforms including AWS and Azure. I design systems that measurably reduce operational costs and improve efficiency.

## Work Experience

### Officer Data Science

#### CIMB AI Labs

Bengaluru

Jun 2025 - Present

- Built a GPT-5-Chat and **Graph-RAG** powered policy comparison platform on **Azure AI Search**, processing **400+** regulatory and internal policy documents and automating compliance gap detection, reducing manual review time by **600%**, lowering legal and compliance risk across multiple business units.
- Productionized **multi-agent generative AI** macroeconomic reporting and reasoning system deployed on **AWS**, transforming unstructured financial data into **60+** computed indicators. Integrated Claude Sonnet 4.5 with agent layers for **reasoning** and **trend forecasting**, enabling real-time executive dashboards with **100x faster** insight generation.
- Delivered an **AML fraud detection system** for **18M+** customers using behavioral and demographic modeling and alert optimization, **reducing undetected fraud to 0.5%** and strengthening regulatory compliance.

### Data Science Intern

#### CIMB AI Labs

Bengaluru

Dec 2024 - May 2025

- Architected a **GenAI framework** on **AWS**, where **web scrapers** and a **Model Context Protocol (MCP)** pipeline work together to ingest macroeconomic data. Used **insight generation layer** to produce automated analytical reports.
- Applied advanced **network graph analytics** using **role-based modeling** to identify high-risk network clusters. Performed **community detection** using modularity-based **Louvain Algorithm** to uncover **1.7M+ previously unflagged** illicit activities.

### Software Engineer Intern

#### Quinnox Consultancy Services

Mumbai

Feb 2024 - July 2024

- Built **React PCF** components in **TypeScript** integrated with **Power Apps**, designing configurable UI workflows that allow low code users to generate and execute **SQL** queries without manual coding.

## Certifications

Microsoft Certified: Azure AI Engineer Associate

[microsoft](#) 

## Education

Indian Institute of Information Technology, Kottayam

B.Tech Computer Science and Engineering

Dec 2021 - Apr 2025

CGPA: 8.8/10.0

## Projects

### Leveraging XAI to Detect Abnormalities in Fetus and Suggest Corrective Measures

[kaggle](#) 

- Orchestrated a **XAI-based detection system** using ultrasound images and clinical data, leveraging **CNNs** and **machine learning models**. Applied **SHAP**, **LIME**, and **Grad-CAM** for explainability, and integrated **vision language model (VLM)** to generate context-aware textual explanations.

### SkinSage - Skin Disease Detection Model

[github/SkinSage](#) 

- Developed a **ResNet50**-based detection model achieving **92% accuracy**, using frozen ResNet50 weights with global average pooling and ReLU + softmax layers for **23-class** prediction, with early stopping to control overfitting.

## Skills

**Languages:** Python, SQL, JavaScript, TypeScript, C++, Java, HTML

**Technologies:** Generative AI, LLMs, Machine Learning, Deep Learning, TensorFlow, PyTorch, OpenCV, AWS, Microsoft Azure, Databricks, ReactJS, NodeJS, Selenium, Power Apps, Hive, REST APIs