

Rajvardhan Das

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PROFESSIONAL SUMMARY

Data Scientist with experience building production-grade Generative AI and machine learning systems in regulated banking environments. Strong background in LLMs, Graph-RAG, AWS, Azure, and deep learning, with proven impact across policy automation, AML fraud detection, and macroeconomic intelligence. Skilled in translating complex data and models into scalable platforms that improve compliance, decision-making, and operational efficiency.

EXPERIENCE

Officer – Data Science — CIMB AI Labs | Bengaluru | June 2025 – Present

- Designed and built a GPT-5-Chat and Graph-RAG powered policy comparison and chatbot platform using Azure AI Search to process 400+ regulatory and internal policy documents aligned with national banking guidelines. Automated policy gap analysis and version comparison, reducing manual review time by 600%, lowering legal and compliance risk, and improving policy update turnaround across business units.
- Developed an automated Macroeconomic Reporting and Reasoning System on AWS that transforms unstructured financial data into 20+ computed economic indicators for ASEAN countries. Integrated Claude Sonnet 4 for dynamic reasoning, trend forecasting, and interpretation, achieving 100x faster insight generation and enabling near real-time executive dashboards for treasury strategy.

Data Science Intern — CIMB AI Labs | Bengaluru | Dec 2024 – May 2025

- Developed an AML fraud detection system for 18M+ customers using behavioral modeling, feature engineering, and alert optimization, reducing undetected fraud to 0.5% while enhancing regulatory compliance.
- Designed a multi-agent GenAI framework on AWS using Claude Sonnet 3.5 to enable real-time macroeconomic, political, bond, and commodity market analysis.
- Built interactive network graph models to detect high-risk clusters, uncovering 1.7M+ previously unflagged illicit activities through advanced graph analytics.

Software Engineer Intern — Quinnox Consultancy Services | Mumbai | Feb 2024 – July 2024

- Built React PCF components with TypeScript integrated into Microsoft Power Apps, enabling automated SQL query generation for low-code users.
- Developed a GPT-4.1 based multi-source RAG chatbot for document querying and conversational interaction.

EDUCATION

Indian Institute of Information Technology Kottayam | B.Tech Computer Science Engineering | Dec 2021 – Apr 2025 | CGPA: 8.8/10.0

PROJECTS

Leveraging XAI to Detect Abnormalities in the Fetus and Suggesting Corrective Measures

[kaggle](#)

- Developed an explainable AI system for fetal abnormality detection using ultrasound images and clinical data, combining CNN-based models with interpretable techniques. Integrated LLaMA 3.2-11B Vision-Instruct-Turbo to generate context-aware textual explanations alongside visual attributions. Applied SHAP, LIME, and Grad-CAM to improve model transparency and clinical interpretability.

SkinSage – Skin Disease Detection Model

[github/SkinSage](#)

- Built an end-to-end deep learning pipeline achieving 92% accuracy for multi-class skin disease classification through dataset preprocessing and model optimization. Implemented a ResNet50-based architecture with frozen weights, Global Average Pooling, and Dense layers using ReLU and softmax activation. Configured training with Adam optimizer, categorical crossentropy loss, and early stopping to reduce overfitting.

CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate

[microsoft](#)

SKILLS

Tech Stack: Python, SQL, TypeScript, ReactJS, NodeJS, OpenCV, Pandas, Streamlit, AWS, Power Apps

Concepts & Domains: Generative AI, LLMs, APIs, CNNs, Machine Learning, Deep Learning, Data Structures