

# Alby Rajesh

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## Objective

AI/ML and Deep Learning enthusiast skilled in Python, SQL, PyTorch, ANN, CNN, RNN, and big data tools. Experienced in generative AI, supervised & unsupervised learning, and model deployment. Seeking to apply strong analytical and problem-solving skills in a global MNC.

## Education

### B. Tech, Electronics and Communication

Nov 2021 – Jan 2025

Rajagiri School of Engineering (Tier I), Kochi

CGPA: 6.73

### Senior Secondary (CBSE)

2019 – 2021

Naipunnya Public School, Kochi

Percentage: 84.8%

## Certifications

- Complete Data Science, Machine Learning, DL, NLP Bootcamp - Krish Naik
- IBM Introduction to Artificial Intelligence
- PyTorch for Deep Learning

## Experience

### AI/ML Intern | Feathersoft

Jul 2025 – Present

- Developed ML and deep learning pipelines on medical datasets using PyTorch for classification, segmentation, and anomaly detection.
- Built and fine-tuned ANN, CNN, and RNN models for disease prediction and medical image analysis.
- Applied supervised and unsupervised learning for patient clustering, diagnosis support, and anomaly detection.
- Developed Streamlit dashboards and integrated AI workflows with LangChain and ChromaDB.

### Telecom Intern | Reliance Jio Infocomm Ltd.

Jan 2024 – Jul 2024

- Assisted 4G/5G system debugging, real-time troubleshooting, and validation of network modules.

## Projects

### RAG-based Chatbot (LangChain + Gemini)

- Built chatbot with RAG architecture using LangChain, ChromaDB, and Gemini.
- Enabled semantic search and document-aware AI conversations via Streamlit.

### Cold Email Generator (Groq + LLaMA)

- Created automated email generator using Groq + LLaMA for marketing personalization.
- Applied prompt engineering, CTA optimization, and A/B testing for effectiveness.

### Medical Image Classification (PyTorch + CNNs)

- Implemented CNN-based pipeline in PyTorch for classification of X-ray/MRI images.
- Used data augmentation, transfer learning (ResNet, VGG), and hyperparameter tuning.
- Deployed model with Streamlit dashboards for healthcare professionals.

## Skills

**Programming:** Python, SQL, C

**ML/AI:** PyTorch, ANN, CNN, RNN, Supervised & Unsupervised Learning, Scikit-learn

**Data/Analytics:** Pandas, NumPy, Regression, Clustering

**Big Data:** Hive, Spark (beginner)

**Frameworks:** LangChain, Streamlit, ChromaDB, Groq SDK, LLaMA

**Languages:** English, Hindi, Malayalam