

# KRISHNARAJ K

AI/ML Engineer specializing in GenAI, RAG Systems, and Full-Stack AI Applications

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LinkedIn — GitHub — Portfolio

## PROFESSIONAL EXPERIENCE

### EMATIX

Remote, India

Frontend Developer Intern

Nov 2025 – Present

- Spearheading the development of a fully responsive e-commerce user interface using modular and reusable React components.
- Enhancing user interaction quality by integrating **Framer Motion** to create smooth, high-performance micro-animations.
- Ensuring cross-device consistency through a **mobile-first design approach**, utilizing semantic HTML and accessibility-focused layouts.

### Edu-Versity

Remote

AI Intern

Jul 2025 – Nov 2025

- Engineered a hybrid ML-based **personalized learning recommendation system**, increasing user engagement by **25%**.
- Optimized model inference time, achieving a reduction from **420ms to 180ms** through strategic API optimization and response caching.

## KEY PROJECTS

### Coding Progress & Analytics System

Tech Stack: React, JavaScript, FastAPI, PineconeDB, PostgreSQL, LangChain

- Designed a centralized dashboard to track coding progress across multiple competitive platforms including **LeetCode, GFG, CodeChef, HackerRank, and AtCoder**
- Implemented a **RAG-based query system** using Pinecone vector database to provide natural language insights on performance metrics

### Personalized Learning Chat Assistant

Tech Stack: Mistral-7B, LangChain, ChromaDB, FastAPI, JavaScript

- Built an intelligent assistant using **Mistral-7B + RAG**, improving the relevance of factual responses by **35%**.
- Integrated an emotional tone adaptation layer via a lightweight classifier to enhance the user experience

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL

**Frontend:** React, HTML5, CSS3, Framer Motion

**GenAI & ML:** TensorFlow/Keras, RAG Systems, CNN Models, LangChain, Mistral-7B

**Backend/DB:** FastAPI, PostgreSQL, Pinecone (Vector DB), ChromaDB

**Tools:** Git, AWS, VSCode, Google Cloud Platform

## ACHIEVEMENTS

- **1st Place, Innofest 2025:** Secured top rank among **110 teams** for innovative prototype design.
- **1st Place, TJS Symposium:** Awarded best project, competing against **80 teams**.
- **1st Place, Jaya Symposium:** Ranked first among **59 teams** for technical presentation.
- **3rd Place, Impactathon:** Achieved podium finish in a high-intensity hackathon of **132 teams**.
- **Finalist, Genterix Innovation Challenge:** Ranked in the Top 11 out of **250+ teams**.

## EDUCATION

St. Joseph's College of Engineering

Chennai, India

B.Tech in Artificial Intelligence and Machine Learning

Expected 2027

CGPA: 8.32/10

## CERTIFICATIONS

- **Oracle OCI** — Generative AI Professional
- **NPTEL** — Google Cloud Computing (Elite Certification)
- **Udemy** — Machine Learning with Python & R