

# Anirudh Venkata Iragavarapu

📍 Hyderabad | 📞 7337451406 | ✉️ [ivanirudh26@gmail.com](mailto:ivanirudh26@gmail.com) | 🔗 [LinkedIn](#)

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## Professional Summary

Computer Science Engineering graduate (2025) specializing in **Generative AI, Machine Learning, and Full-Stack Development**. Experienced in building **AI-powered applications** with RAG, LLMs, FastAPI, and Next.js. Strong background in **model development, backend engineering, and scalable APIs**, with hands-on industry experience through multiple internships and projects.

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## Technical Skills

**Programming & Frameworks:** Python, Java, C#, .NET, C, OOP, FastAPI, LangChain

**AI & ML:** Generative AI, LLMs, RAG, NLP, Deep Learning, Machine Learning

**Web Development:** React, Next.js, HTML, CSS, JavaScript

**Databases:** PostgreSQL, MongoDB, MySQL, ChromaDB

**Tools & Libraries:** Scikit-learn, Keras, SQLAlchemy, Git

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## Internship Experience

**Fasthire 99 — Software Development Intern** | Aug 2024 – Nov 2024

- Built backend pipelines with **LangChain + FastAPI** to parse resumes & job descriptions, improving parsing efficiency by **30%**.
- Automated AI-driven technical assessments using LLMs, reducing recruiter workload by **40%**.
- Developed interactive dashboards with **Next.js**, enabling real-time visualization of hiring insights.

**Acmegrade — Machine Learning Intern** | May 2024 – Jul 2024

- Built a **cancer prediction model** with Random Forest, XGBoost, and SVM, achieving **92% accuracy**.
  - Developed a **music recommendation system** using collaborative & content-based filtering.
  - Applied **Scikit-learn & Keras** for preprocessing, model tuning, and visualization.
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## Projects

### AI Compliance Copilot — Founder & Backend Engineer (2025 – Present)

*FastAPI | PostgreSQL | ChromaDB | Gemini Pro | RAG*

- Designed an **AI-powered compliance assistant** for semantic search & analysis of policy documents.
- Built secure **REST APIs** for CRUD operations and document queries with **FastAPI + SQLAlchemy**.
- Integrated **Gemini Pro embeddings + ChromaDB** for accurate RAG-based document retrieval.
- Built the frontend using next.js

### Cryptojacking Malware Classification (Oct 2024 – Mar 2025)

- Developed a real-time **cryptojacking detection system** using ML (Random Forest, SVM, Deep Learning).
- Implemented ensemble learning to improve detection accuracy and reduce false positives.

### Cancer Prediction Model (Apr 2024 – May 2024)

- Built predictive models with **GridSearchCV optimization**, selecting the best algorithm by accuracy, precision, recall, and F1-score.
- Compared multiple models like XGboost , SVM , random forest.

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## Education

**B.Tech, Computer Science & Engineering** – GITAM University | CGPA: 7.3 | 2021 – 2025

**Intermediate, FIITJEE Hyderabad** – 81.6% | 2021

**The Future Kids School, Hyderabad** – 86.6% | 2019

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## Certifications

- Managing Machine Learning Projects — Coursera (2023)
- Introduction to Machine Learning — Coursera (2023)
- Python Data Structures — Coursera (2023)
- Introduction to OOP with Java — Coursera (2023)