**Anirudh Venkata Iragavarapu**

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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.

**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

**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.

**Projects**

**AI Compliance Copilot — Founder & Backend Engineer (2025 – Present)**  
*FastAPI | PostgreSQL | ChromaDB | Gemini Pro | RAG | Next.js*

* Founded and engineered an **AI-powered compliance assistant** to help enterprises **search, analyze, and generate compliance documents** with ease.
* Architected and deployed **secure REST APIs** (FastAPI + SQLAlchemy) for **CRUD operations, file ingestion, and AI-driven queries**.
* Implemented **Retrieval-Augmented Generation (RAG)** with Gemini Pro embeddings + ChromaDB for **accurate, semantic compliance Q&A**.
* Designed a **Next.js frontend dashboard** with:
  + **Document upload & ingestion** (PDF/Word parsing, chunking, vectorization).
  + **AI-powered document generation & summarization**.
  + **Tag-based filtering & search** for faster navigation.
  + **Smart compliance insights & suggestions** (AI-suggested tags, highlights, summaries).
  + **User authentication & access control** for security.

**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.

**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

**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)