

ANIRUDH VENKATA IRAGAVARAPU

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Objective

Motivated and detail-oriented Computer Science Engineering graduate with a strong foundation in programming, algorithms, and machine learning. Eager to build a career as an AI Engineer by applying technical knowledge to real-world problems and contributing to impactful AI-driven projects.

Education

Course	Grade/Percentage	Passed out Year
GITAM-BTECH , CSE	Grade: 7.3	2021-2025
FIITJEE, Hyderabad,	Inter Percentage: 81.60	2021
The Future Kids School, Hyderabad	Percentage: 86.60	2019

Skills

Programming: Generative AI, Python, C language, OOPS , Machine Learning, Java, C#, .NET, RAG (Retrieval-Augmented Generation), FastAPI

Web development: HTML, CSS, React, JavaScript, .NET, Next.js

Databases: MySQL, MongoDB, Postgresql, ChromaDB

Internship:

Name of the Organization: Fasthire 99 Aug. 10, 2024 –Nov. 15,2024

Role: Software Development Intern

Summary: FastHire99 is a startup transforming recruitment with Generative AI. It helps recruiters create job descriptions, match resumes, and conduct technical evaluations. By analyzing key factors like job descriptions, resumes, skills, projects, challenges, and career progression, FastHire99 generates tailored questions and answers, streamlining the assessment process. Worked on the backend with generative AI, LLM, and Langchain frameworks to parse resumes and job descriptions and dynamically generate dashboards, questions, and other information. I also worked on the front end to create the UI/UI of the website using Next.js.

Name of the Organization: AcmeGrade May 8, 2024 – July 23, 2024

Role: Machine Learning Intern

Summary: During my internship, I gained hands-on experience with various machine learning models, including decision trees, random forests, SVM, and neural networks, applying them to real-world projects. I worked on a cancer prediction model, focusing on data preprocessing, feature selection, and model evaluation, achieving strong accuracy metrics. Additionally, I developed a music recommendation system using collaborative and content-based filtering to enhance user personalization. Throughout the internship, I used Python libraries like Scikit-learn, Keras, furthering my skills in model tuning, data analysis, and visualization.

Projects

AI Compliance Copilot — *Founder & Backend Engineer*

FastAPI | PostgreSQL | ChromaDB | Gemini Pro | RAG (Retrieval-Augmented Generation)
2025 – Present

- Built an AI-powered compliance assistant that generates, stores, and analyzes policy documents using LLMs and vector search.
- Developed secure REST APIs for uploading, generating, and querying documents; implemented full CRUD operations with FastAPI + SQLAlchemy.
- Integrated Gemini Pro (Generative + Embedding) for document generation and similarity search; implemented ChromaDB for semantic retrieval (RAG).
- Enabled users to ask compliance questions across both uploaded and AI-generated documents, with smart filtering (e.g. include/exclude AI content).
- Tagged AI-generated content and added metadata-aware vector embedding to support trustworthy RAG outputs using ChromaDB.
- Added support for filtering documents by tags/types, and planned regulatory knowledge base preloading (e.g. DPDP, GDPR, ISO 27001) for document-to-standard comparison.
- Designed for future extensibility with plans for user auth, frontend dashboard, and policy evaluation scoring using next.js.

Title: CRYPTOJACKING MALWARE CLASSIFICATION USING MACHINE LEARNING Oct 12, 2024 - March 14, 2024 (4th year project)

- Developed a real-time cryptojacking detection system using machine learning algorithms (Random Forest, Decision Trees, SVM, and Deep Learning), achieving high accuracy and low false positive rates
- Engineered behavioral features such as excessive network connections and prolonged process execution times to distinguish between legitimate system activities and cryptojacking attacks.

- Implemented ensemble learning techniques to boost detection performance and designed adaptive learning capabilities for identifying previously unseen cryptojacking variants.

Title: CANCER PREDICTION MODEL USING MACHINE LEARNING April 2, 2024 - May 14, 2024

- Built models using Random Forest, SVM, and XGBoost algorithms to predict the likelihood of cancer.
- Employed GridSearchCV to perform an exhaustive search over specified parameter grids for each model to identify the best hyperparameters.
- Evaluated models using cross-validation to prevent overfitting.
- Compared models based on accuracy, precision, recall, and F1-score to select the optimal model.

Certifications

- Managing Machine Learning Projects Coursera Nov. 2, 2023
- Introduction to Machine Learning Coursera March 2, 2023
- Python Data Structures Coursera June 2, 2023
- Introduction to Object-Oriented Programming with Java Coursera March 24,

Languages Known

- **English**
- **Telugu**
- **Hindi**