ADITYA RAJ

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GitHub: https://github.com/AddyTriesToCode | **LinkedIn:**
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 Link to my resume : https://jolly-glacier-089e0bc00.3.azurestaticapps.net

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PROFESSIONAL SUMMARY

Computer Science Engineer with a solid foundation in machine learning, deep learning, and full-stack development. I recently completed my B.Tech in Computer Science from Manipal Institute of Technology (CGPA 7.2) and have hands-on experience building end-to-end AI applications, REST APIs, and web applications. I enjoy turning data and models into real, usable products and deploying them to production. I'm now looking for opportunities to work on innovative AI/ML projects at forward-thinking companies.

TECHNICAL SKILLS

Programming Languages
Python, JavaScript, Java, SQL, HTML/CSS, Bash

AI/ML
Python, PyTorch, Scikit-Learn, TensorFLow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Exploratory Data Analysis (EDA),RAG, LLMs (Llama 3, generative AI), LangChain, Hugging Face, embeddings, vector search (Chroma), NLP, time-series forecasting, classical ML (regression, classification)

Full-Stack Development
React, Javascript, Express.js, FastAPI, JWT, OAuth, Curl, Postman

Databases
PostgreSQL, MySQL, ChromaDB (Vector database), Firebase, Schema design, Indexing & query optimization basics

Tools & Deployment
Cursor, VS Code, Android Studio, Chroma, Ollama, Google Colab, Azure, AWS, Docker, Git, GitHub, Heroku

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PROFESSIONAL EXPERIENCE

1. **Full Stack Developer (Internship)**

   JKC Softwares LLP | 17.02.2025– 17.08.2025

- Responsible for development of **IndiaBills** android application, which facilitates Indian MSMEs to carry out error-free business operations.

My key contributions are : Inventory management, order tracking, E-commerce service, UI/UX design, API endpoints, Session management and User Based Access Control.

2. **Agentic AI Developer (Internship)**

   GoldenBird Education | Pune | 31.08.2025 – 31.12.2025

- Responsible for building data preprocessing pipelines for structured and unstructured inputs using Python and Pandas, supporting AI agent workflows and improving automation reliability.
- BI and analytics automation using GPT APIs and LangChain, and help communicate system behavior and insights to non-technical teams through testing and documentation.

KEY PROJECTS

1. ## ResearchIQ - PDF Q&A Bot

- Created full-stack app for PDF uploads, chunking, embedding (via Hugging Face), and retrieval with Llama 3 generation; supports multi-document querying and chat history with 95%+ accuracy.
- Combined FAISS based vector search with HuggingFace embeddings to reach < 200ms search latency with 60% time reduction.
- Engineered chat agent for document Q&A: file upload → text chunking → embedding storage → similarity search → LLM synthesis

   Tech Stack : Python, LLM(Llama3), RAG, embeddings, Vector Search, FastAPI, LangChain, Ollama, ChromaDB, React.

   Link: https://github.com/AddyTriesToCode/ResearchIQ

2. ## CodeBuddy – AI Coding Assistant

- Full-stack AI coding companion allowing code completion, real-time error diagnosis and code correction.
- Integrated REST APIs with PostgreSQL backend, React frontend, and secure GitHub OAuth + MFA authentication
- Features: code refactoring, unit test generation, design-to-code conversion across 100+ languages
  Tech Stack : FastAPI, React, Chroma Vector DB, GitHub OAuth, JWT
   Link : https://github.com/AddyTriesToCode/CodeBuddy

3. ## FactFlow – AI-Powered Fact-Checking News Aggregator

- Full-stack news aggregation platform with automated AI fact-checking

- Real-time article feeds from multiple trusted sources with advanced filtering

- Personalized topic collections (Smart Collections) for users

- JWT-based authentication with role-based access control

- **Tech Stack :** Node.js, Express, MongoDB, React, Vite, Material UI, React Router, Perigon News API, Google Gemini AI, JWT, bcrypt, CORS, Helmet, express-validator, React Context API, Custom Hooks

  Link : https://github.com/AddyTriesToCode/FactFlow-AI

4. Content Based Recommendation Application

- Classical supervised learning ML project trained on official IMDB datasets.
- The model returns the top 10 movies, most similar to the queried movie

  Tech Stack: Python, Scikit-learn, Streamlit, Numpy, Pandas, TF-IDF vectorization, NLTK

5. SMS Spam Classification

- Classical supervised leraning ML project on a classification problem.
- Model categorizes messages as either Spam or Not Spam, on the basis of generated WordClouds.
  Tech Stack: Python, Scikit-Learn, Streamlit, Numpy, Pandas, NLTK, One-Hot Encoder

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EDUCATION

Bachelor of Technology - Computer Science & Engineering

Manipal Institute of Technology | India | [2025]

- CGPA: 7.2 / 10.0

Higher Secondary Education

Delhi Public School, Ranchi | India | [2020]

- Percentage : 90.3/100

Secondary Education

St. Thomas School, Ranchi | India | [2018]

- Percentage: 95.67/100

CERTIFICATIONS

- Foundations of Software Engineering
- Ethics in Engineering