

# ADITYA RAJ

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**GitHub:** <https://github.com/AddyTriesToCode> | **LinkedIn:** <https://www.linkedin.com/in/aditya-raj-2600901a5>

**Link to my resume :** <https://jolly-glacier-089eobcoo.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.

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## **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), Schema design, Indexing & query optimization basics

### **Tools & Deployment**

Cursor, VS Code, Android Studio, Chroma, Ollama, Google Colab, AWS, Docker, Git, GitHub, Streamlit, 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.
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## 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 learning 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