

# ADITYA RAJ

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## OBJECTIVE

Aspiring software developer with hands on experience in Machine Learning, Deep Learning, LLMs, Data Preprocessing and EDA, web development & android app development. Passionate about GenAI, ethical AI and developing real-world applications.

## EDUCATION

### B.Tech Computer Science, Manipal Institute of Technology [2025]

CGPA: 7.2

### Delhi Public School, Ranchi [2020]

90.3%

### St.Thomas School, Ranchi [2018]

95.67%

## INTERNSHIP EXPERIENCE

### Agentic AI Developer Intern | Golden Bird Education | [edgoldenbird.com](http://edgoldenbird.com) | Certificate | LOA

[Sep 2025 - Present]

- 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.

### Full Stack Developer | JKC Softwares LLP | [jkcssoftwares.com](http://jkcssoftwares.com) | Certificate

[Feb 2025 - Aug 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.

## PROJECTS

### ResearchIQ - PDF Q&A Bot

- Created full-stack RAG 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, FastAPI, LangChain, Ollama, ChromaDB, React.
- **Link :** <https://github.com/AddyTriesToCode/ResearchIQ>.

### 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
- **Tech Stack :** FastAPI, React, Chroma Vector DB, GitHub OAuth, JWT
- **Link :** <https://github.com/AddyTriesToCode/CodeBuddy>.

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

- Full-stack news aggregation platform with real-time article feeds, advanced filtering and automated AI fact-checking
- Personalized topic collections (Smart Collections) for users and 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>

Similar projects GitHub Link : <https://github.com/AddyTriesToCode>

## CERTIFICATIONS AND SKILLS

- [Foundations of Software Testing and Validation](#)
- [Ethics in Engineering](#)

**Relevant Coursework :** Foundations of Data Science, Probability and Statistics, Machine Learning, Data Mining, Data Analysis, Database Systems, Web Development, Computer Vision

**Languages :** Python, Java, JavaScript, SQL, C, HTML, CSS, XML

**AIML :** PyTorch, Scikit-Learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn ,RAG, LLMs,LangChain, Hugging Face

**Databases :** MongoDB, MySQL, Firebase, Chroma Vector DB

**Web dev :** React, Javascript, Express.js, FastAPI, JWT, OAuth, Curl, Postman

**Other Tools and Platforms:** AWS, Microsoft Azure, Git, Anaconda, Jenkins, Kubernetes, Kafka, Power BI, Tableau