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   **[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   **[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 Stac**k : 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

   More projects at : 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 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, JSON, OAuth, Curl, Postman
Other Tools and Platforms: AWS, Microsoft Azure, VS Code, Git, Android Studio, Power BI, Tableau