

Ayush Dhiman

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SKILLS

Core / Languages & Frameworks: Python, React.js (NextJS, AstroJS), Flutter, FastAPI, Node.js
AI / LLMs & RAG: LangChain, GraphRAG, Agents, MCP, RAG, Ollama, Stable Diffusion
Databases & Datastores: PostgreSQL, MongoDB, Supabase, Neo4j, Qdrant, ChromaDB, FAISS
Web Development: Basic Fullstack, APIs (REST, GraphQL, Webhook)
Infra & Deployment: Docker/Podman, GitHub Actions (CI/CD), Linux, AWS, Azure, GCP, Git
Other: Selenium/Playwright, basic Solidity (Web3), VPN, Testing, Project Management

PROJECTS

PlainCrisp - [Instagram](https://www.instagram.com/plaincrisp), plaincrisp.com

January 2025

- Founded solo and currently building PlainCrisp, **fully automated** news aggregation and distribution platform, **containerized and hosted** on bare metal along with a **custom orchestration script** to manage containers and CI/CD pipelines used **for monitoring, scheduling and deployment**.
- Backend includes **multiple documented process pipelines** from which entities of fresh news are being fed to the **Neo4j GraphDB** which helps builds relationships between past and present events. A **GraphRAG** is used to extract latest news and build a history of given news event and then summarize it to a detailed sentence of news.
- Frontend includes a mobile app built with **MVVM architecture and riverpod state management**, along with **GraphQL API calls** to the backend server, handing paginated cursor news feed and topic following.
- **In a survey held on random strangers for PlainCrisp, over 55% show a tendency to choose PlainCrisp over existing news sources.**

RAGging - [GitHub](https://github.com)

October 2025

- Solo built a **RAG** with **11 agents** and a local open-source LLM supporting 5 languages with a **near-perfect document retrieval accuracy under 1 seconds** using gemma3:4b and Gemini embeddings along with BM25 ranker.
- **Production ready** deployment with Qdrant, Docker and **detailed documentation** throughout the codebase.

Boring Brains - [GitHub](https://github.com), [DevPost](https://devpost.com)

November 2024

- Solo built a **privacy focused and self-hosted** browser companion, with a **context aware chat-to-retrieve** solution to get screenshots of previous browsing sessions.
- Used SambaNova instead of frontline LLMs for **60% faster inferencing** of requests and responses.
- Utilised **LangChain along with FAISS vector** store to create the **retrieval engine** and **dockerized** the implementation with a **single time token-based authentication** system.

ACHIEVEMENTS

Winner of the International [Student Hacks 2024 Hackathon](#) for Boring Brains

University finalists for the National [Smart India Hackathon 2024](#) amongst **104 students**

Achieved **647th** position on [GeeksForGeeks](#) competitive coding (DSA) platform

Came **3rd** amongst **1370** in International [Tableau DataDev 2023 Hackathon](#) with TabViz and received **\$400 prize**

Got the **2nd** position in the [Culture Craft 2023 Hackathon](#) held by Android Club of VIT Bhopal amongst **90 teams**

National Grand Finalist in [KAVACH 2023 Hackathon](#) for PhishWarden amongst **972 teams** nationwide

Placed 4th in [Tableau DataDev Spring 2023 Hackathon](#) for Traffic Forecast and received **\$150 Tableau Gift Card**

EDUCATION

Vellore Institute of Technology Bhopal

August 2021 – October 2025

Bachelor of Technology in Computer Science Engineering with Specialization in Cyber Security and Digital Forensics

