

MANAS JHA

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SKILLS

- **Programming:** Python, Java
 - **Backend Development:** FastAPI, Flask, Git
 - **Databases:** SQL, MongoDB, Neo4j
 - **AI & ML:** Machine Learning, Generative AI, LLMs, LangChain
 - **Cloud & DevOps:** Google Cloud (GCP), Docker
 - **Automation:** Selenium, API Integration
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EDUCATION

Gautam Buddha University

B.Tech, Information Technology (2022-2026) | CGPA: 8.3

PROJECTS

RAG-Based AI Chatbot for College Queries

 [GitHub Repo](#) | **Tech Stack:** Python, FastAPI, Pinecone, Neo4j, MongoDB, Groq API, GCP

- Built an AI chatbot using **Retrieval-Augmented Generation (RAG)** to handle student queries.
- Integrated **Pinecone** for vector search and **Neo4j** for knowledge graph-based retrieval.
- Deployed using **FastAPI** with **MongoDB** for chat history storage.
- Optimized inference using **Groq API**, reducing response time by **30%**.
- In pilot phase with **2000+ active student users**.

Stubble Fire Detection & Prevention System (In Progress)

 [Demo Link](#) | **Tech Stack:** Python, Google Cloud, NASA FIRMS API, OpenCV

- Developed a **real-time fire detection** system using **VIIRS & MODIS satellite imagery**.
 - Implemented **automated alerts for early fire detection** to reduce crop damage.
 - Training deep learning models to improve **fire hotspot detection accuracy**.
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EXPERIENCE

Marketing & Tech Outreach Intern | Pregrad (March 2023 - May 2023)

- Spearheaded campus outreach initiatives to increase **Tech adoption among students**.
 - Organized workshops & seminars on **AI and Cloud technologies**.
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HACKATHONS & COMPETITIONS

🏆 Winner | Agritech Hackathon (Microsoft Azure Sponsored)

- Developed a **stubble fire detection system** using AI & satellite data.
- Showcased real-time **fire monitoring dashboard** built on Microsoft Azure.

 [Event Link](#)

CERTIFICATIONS

✅ Google Associate Cloud Engineer (GCP Certified)

ADDITIONAL DETAILS

- Passionate about **AI model optimization and deployment**.
 - Strong problem-solving skills with experience in **collaborative AI-driven projects**.
 - Open-source contributor, actively sharing AI/ML solutions on GitHub
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