

# Suraj Bhadauria

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## EDUCATION

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### National Forensic Sciences University

B.Tech – M.Tech Computer Science and Engg. (Cyber Security) | CGPA: 9.3/10 (Sem 5)

Dharwad, Karnataka

2023 – 2028

## EXPERIENCE

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### AI Engineer Intern

June 2025 – Aug. 2025

Directorate General of Information Systems (DGIS), Indian Army | New Delhi

- Architected a real-time OSINT intelligence platform within a secure air-gapped infrastructure, using Siamese Neural Networks and YOLO for entity recognition and similarity-based intelligence analysis.
- Built a conversational AI interface enabling officers to query complex intelligence data and visualize key statistics through natural language.
- Developed algorithms for digitizing handwritten forms and integrated LLMs for natural language database querying as part of a broader digital transformation initiative.

### Full Stack Developer

Jan 2026 – Present

Agamy Cyber Tech | Dharwad, Karnataka

- Built and deployed a full-stack CTF hosting platform with a highly interactive Jeopardy-style UI and real-time admin broadcasts using WebSockets.
- Developed a complete admin portal and backend using Next.js, FastAPI, and PostgreSQL; containerized and deployed using Docker on DigitalOcean.
- Designed 25+ CTF challenges across 5 categories and engineered a custom vulnerable Ubuntu machine with 25 embedded flags leading to privilege escalation.

## PROJECTS

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### Smart Urban Infrastructure Reporting & AI Analytics System

Nov 2025

LangGraph, LangChain, Flutter, FastAPI, React.js

- Built a smart city platform enabling citizens to submit geo-tagged infrastructure reports (broken roads, waterlogging) via a Flutter mobile app, aggregated on a React.js dashboard for civil engineers.
- Engineered an Agentic AI backend (LangGraph + FastAPI) that classifies citizen reports, overlays environmental and city data on an interactive real-time map, and autonomously escalates high-upvote issues to concerned authorities via automated email.
- Integrated an AI chatbot for civil engineers to query and analyze city infrastructure data; won Code Bharat Hackathon, IIIT Dharwad under the “Intelligence of Living Cities” theme.

### Autonomous Multi-Modal RAG System

Aug 2025

LangGraph, LangChain, Sentence Transformers, FastAPI

- Built a document-aware RAG pipeline that routes queries by file type, skipping retrieval for general documents and applying DocTR-based OCR for images and PPTX files, improving response accuracy and processing efficiency.
- Designed a retrieval layer using English (**bge-large-en**) and multilingual (**bge-m3**) embedding models with cross-encoder re-ranking, enabling nuanced queries across languages with higher answer relevance.
- Extended with agentic capabilities, Groq Llama-3 70B browses websites and calls external APIs mid-conversation based on user intent, making it functional beyond static document Q&A.

### Deepfake Detection System

March 2025

Vision Transformers, GenConViT, FastAPI, Next.js, Gemini

- Built a dual-pipeline detection system, ViT for image forgery and GenConViT (Deressa) for video analysis, under a single FastAPI backend with separate inference routes per modality.
- Added a Gemini-powered explainability layer that generates plain-language summaries of flagged media with visual overlays highlighting manipulated regions, keeping the tool usable for non-technical users.
- Optimized FastAPI serving to minimize inference latency by separating image and video pipelines, preventing bottlenecks under concurrent requests.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, Java, C++, C, SQL

**Frontend:** React.js, Next.js, Flutter, HTML5, CSS3, Tailwind CSS

**Backend:** FastAPI, Flask, Django, Node.js, Express.js, REST APIs

**Databases:** PostgreSQL, MongoDB, MySQL, SQLite

**AI/ML:** LangChain, LangGraph, Advanced RAG, Vision Transformers, Sentence Transformers, Computer Vision

**Deployment:** Docker, GitHub Actions, AWS, Azure, Digital Ocean, PythonAnywhere, Nginx

**Tools:** Git, GitHub, Docker, Postman, VS Code