

# Abhishek Chourasia

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Portfolio | LinkedIn | GitHub

## PROFESSIONAL SUMMARY

A B.Tech. Computer Science graduate from Medi-Caps University (9.33 CGPA) specializing in AI, Machine Learning, and Full-Stack Development. My experience is defined by engineering end-to-end AI systems, from developing multi-agent chatbots (A-Prime.ai) and agentic systems (SuperGPT) at Supersourcing to creating a breast cancer detection tool (Web-BCD) under IBM's mentorship. As a published researcher, my work includes an IEEE paper on the "KrishiDisha" AI platform for agriculture and a Springer Nature paper on student dropout analysis. I am proficient in Python, LangChain, and FLask, with hands-on experience using FastAPI, MongoDB, and Docker to build and deploy robust solutions.

## TECHNICAL SKILLS

**Languages & Databases:** Python, Java, C/C++, JavaScript, HTML/CSS, SQL, MongoDB, PostgreSQL

**Frameworks & Tools:** LangChain, LangGraph, FastAPI, Flask, Django, Scikit-learn, TensorFlow, Pandas, NumPy, Git, Docker

**Core Competencies:** Machine Learning, Deep Learning (CNN, RNN-LSTM), LLMs, RAG, Agentic Workflows, Full Stack Web Development, Data Analysis, Research & Development

## EXPERIENCE

### Supersourcing

Indore, India

July 2025 – Present

AI/ML Intern

- Enhanced the **SuperGPT** enterprise chatbot by engineering two new AI agents for role-based dashboard access and team performance queries, expanding its capabilities from 4 to 6 core functions.
- Architected and implemented a multi-agent framework using **Langchain** and **Langgraph**, enabling a single user query to be processed by multiple specialized agents simultaneously.
- Contributed to the development of AI solutions for partner products, including data curation for **getprojects.ai** using **PostgreSQL** and foundational analysis for an e-learning chatbot (**Shule Direct**).
- Utilized **FastAPI** to build and expose robust API endpoints for chatbot functionalities, ensuring seamless integration and communication between agents and the frontend.

### IBM Global Remote Mentorship

Pune, India (Remote)

July 2024 – December 2024

Machine Learning Research Intern

- Developed **Web-BCD**, a breast cancer detection system using the Wisconsin dataset, achieving high accuracy.
- Engineered an ML model with Python (Pandas, Numpy, Scikit-learn) and a Sequential Neural Network.
- Deployed the model using Flask and integrated it with an interactive HTML/CSS/JavaScript interface.
- Earned an IBM SkillsBuild certificate and received mentorship from an industry expert, enhancing technical and project management skills.

## EDUCATION

### Medi-Caps University

Indore, India

August 2023 – May 2025

B.Tech in Computer Science, CGPA: 9.33

### Medi-Caps University

Indore, India

June 2021 – July 2023

B.Sc in Computer Science (AIML), CGPA: 8.88

### Karnataka Vidya Niketan School

Indore, India

2021

MPBSE, 12th Standard – 86.2%

### Karnataka Vidya Niketan School

Indore, India

2019

MPBSE, 10th Standard – 85.4%

PROJECTS

<b>A-Prime-AI   Multi-Agent Chatbot Platform</b>	<i>May 2025 – Present</i>
<ul style="list-style-type: none"><li>Developing <b>A-Prime-AI</b>, a multi-agent chatbot platform using Python with a robust FastAPI backend.</li><li>Engineered an intelligent routing system using a Groq-powered LLM (Llama 3) to delegate tasks to specialized agents for web search, image generation, code creation, and Q&amp;A.</li><li>Integrated external APIs: <b>Tavily</b> for web searches, <b>Stability AI</b> for image generation, and <b>Groq</b> for high-speed language processing.</li><li>Implemented a persistent, long-term memory system using <b>MongoDB</b> to store and retrieve user chat sessions and conversation histories.</li></ul>	
<b>SuperGPT   Enterprise AI Agent Enhancement</b>	<i>July 2025 – Present</i>
<ul style="list-style-type: none"><li>Engineered a role-based access control (RBAC) agent to govern chatbot interactions with dashboards, ensuring users could not access data beyond their authorized permissions.</li><li>Developed a conversational agent for team dashboards, allowing managers to query team member performance metrics and delegation structures using natural language.</li><li>Upgraded the chatbot’s core logic to support multi-agent workflows, designing a system where complex queries are decomposed and routed to multiple agents for a comprehensive response.</li><li><b>Tech Stack:</b> Python, Langchain, Langgraph, FastAPI, Large Language Models (LLMs).</li></ul>	
<b>KrishiDisha   AI-driven Crop Optimization Platform</b>	<i>October 2024 – April 2025</i>
<ul style="list-style-type: none"><li>Integrated crop/fertilizer recommendations, disease detection, and yield prediction using ML models (Random Forest, CNN).</li><li>Developed an AI-powered chatbot for instant, personalized agricultural guidance and implemented multilingual support.</li><li>Deployed the platform using Flask with a user-friendly interface to improve accessibility for farmers.</li><li>Authored paper titled "KrishiDisha: Revolutionizing Agriculture with Intelligent Recommendations, Disease Detection, and Yield Prediction " accepted for the <i>2025 International Conference on Engineering Innovations and Technologies (ICoEIT)</i>.</li></ul>	
<b>STUDROP   Student Dropout Analysis using ML/DL</b>	<i>October 2023 – January 2024</i>
<ul style="list-style-type: none"><li>Co-authored and presented a paper at WCSC 2024 analyzing factors influencing student dropout using ML and DL algorithms.</li><li>Published by <b>Springer Nature</b> in the <i>Studies in Smart Technologies</i> series (April 2025). DOI: 10.1007/978-981-97-9006-7_20.</li></ul>	

CERTIFICATIONS

<b>Celonis: Academic Process Mining Fundamentals</b>	<i>July 2024</i>
<b>IBM: Data Science &amp; Machine Learning with Python</b>	<i>July 2024 &amp; July 2023</i>
<b>NPTEL IIT Madras: Python for Data Science</b>	<i>April 2024</i>
<b>Cisco: Python Essentials, Networking Essentials, OS Basics</b>	<i>April 2023</i>

AWARDS

<b>CodeVir (All India Rank: 17)   iNurture Education Solutions</b>	<i>January 2023</i>
<b>Runner-Up (Silver Medalist) - National Transtemporal Tattle Trials</b>	<i>January 2022</i>