

Abhishek Chourasia

174, Tilak Nagar, Indore, India | +91 9752950569 | abhishekchourasia29122003@gmail.com
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, 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

A-Prime-AI Multi-Agent Chatbot Platform	<i>May 2025 – Present</i>
<ul style="list-style-type: none">• Developing A-Prime-AI, a multi-agent chatbot platform using Python with a robust FastAPI backend.• 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&A.• Integrated external APIs: Tavily for web searches, Stability AI for image generation, and Groq for high-speed language processing.• Implemented a persistent, long-term memory system using MongoDB to store and retrieve user chat sessions and conversation histories.	

SuperGPT Enterprise AI Agent Enhancement	<i>July 2025 – Present</i>
<ul style="list-style-type: none">• Engineered a role-based access control (RBAC) agent to govern chatbot interactions with dashboards, ensuring users could not access data beyond their authorized permissions.• Developed a conversational agent for team dashboards, allowing managers to query team member performance metrics and delegation structures using natural language.• 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.• Tech Stack: Python, Langchain, Langgraph, FastAPI, Large Language Models (LLMs).	

KrishiDisha AI-driven Crop Optimization Platform	<i>October 2024 – April 2025</i>
<ul style="list-style-type: none">• Integrated crop/fertilizer recommendations, disease detection, and yield prediction using ML models (Random Forest, CNN).• Developed an AI-powered chatbot for instant, personalized agricultural guidance and implemented multilingual support.• Deployed the platform using Flask with a user-friendly interface to improve accessibility for farmers.• 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>.	

STUDROP Student Dropout Analysis using ML/DL	<i>October 2023 – January 2024</i>
<ul style="list-style-type: none">• Co-authored and presented a paper at WCSC 2024 analyzing factors influencing student dropout using ML and DL algorithms.• Published by Springer Nature in the <i>Studies in Smart Technologies</i> series (April 2025). DOI: 10.1007/978-981-97-9006-7_20.	

CERTIFICATIONS

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

AWARDS

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