

# SURAJ CHOUHAN

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## PROFESSIONAL SUMMARY

Versatile Software Engineer with a strong foundation in AI/ML and hands-on experience developing intelligent, user-centric applications. Skilled in solving real-world problems using data-driven approaches, and comfortable working across backend systems, web technologies, and modern AI tools. Passionate about continuous learning and building impactful digital solutions.

## EDUCATION

- **Medi-Caps University**, Indore, MP  
M.Tech in Computer Science (Artificial Intelligence) August 2023– May 2025  
GPA: 9.2
- **Indore Institute of Science & Technology**, Indore, MP  
B.Tech in Computer Science August 2019– June 2023  
GPA: 8.59

## EXPERIENCE

**Associate Software Engineer**, Techinfini Solutions Pvt. Ltd. Indore, MP  
*August 2023 – Present*

- Integrated LLMs (OpenAI, Groq, Hugging Face) into business apps to enable features like chatbots, summarization, and sentiment analysis.
- Designed image-based diagnostic models with OpenCV and CNNs to predict potential diseases from medical imagery.
- Delivered NLP-based process automation to enhance internal tools and streamline client operations.
- Automated Google Merchant Center and Facebook product feed generation, optimizing e-commerce marketing workflows.
- Built custom Shopify apps and fine-tuned GraphQL/REST APIs for seamless product and order synchronization.

**Software Engineering Virtual Intern**, Forage Foundation Remote  
*March 2022 – April 2022*

- Gained practical experience in software design and database modeling through simulated e-commerce systems.

## PROJECTS

**GenAI-Powered Ad Generator** — LLM-Based Marketing Automation Tool

- Created a tool that scrapes domain URLs and generates tailored ad titles/descriptions using Gemini and a distilled diffusion model for visuals.
- Enhanced ad quality across image, video, and carousel formats via zero-shot and few-shot prompt engineering.
- Deployed a cross-platform solution using Flask (backend), HTML/CSS + JavaScript (frontend), and Docker.

**AI - Medi Boat** — Multimodal Medical Assistant

- Engineered an assistant that handles both image and voice queries using Groq, Gradio, PyDub, PyAudio, and GTTS.
- Delivered real-time interaction through speech recognition and multimodal response generation.

**Face Recognition Attendance System**

- Developed a GUI-based face recognition app using Tkinter + OpenCV + Pandas with MySQL backend.
- Implemented supervised learning for accurate facial detection and CSV-based attendance tracking.

## RESEARCH

**Multimodal Fusion of CT and MRI for Liver Tumor Segmentation and Classification Using Attention-Based CNNs**

Published in: *Journal of Neonatal Surgery*, Vol. 14 No. 31S (2025)

Focused on enhancing liver tumor detection through multimodal medical image fusion and deep learning using attention-based convolutional neural networks.

## TECHNICAL SKILLS

- **Coursework:** Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI, Algorithms, Digital Image Processing.
- **Languages:** Python, PHP, SQL, JavaScript, HTML, CSS
- **Libraries/Frameworks:** Flask, Django, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, OpenCV, NLTK, spaCy, Transformers
- **Tools:** Docker, Git, Postman, Shopify, Hugging Face Hub
- **Soft Skills:** Adaptable, Collaborative, Proactive, Leadership-oriented

## ACHIEVEMENTS

- Member, Google Developer Student Club (GDSC), IIST.
- Completed Walmart Global Tech Virtual Experience in Advanced Software Engineering.
- Earned certifications in AWS Machine Learning, AWS Cloud Foundations, and IBM Web Development.