

# Harsh Gupta

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## PROFILE SUMMARY

Third-year Computer Science student specializing in Artificial Intelligence (AI) and Machine Learning (ML), with a strong foundation in Python, scikit-learn, data science, and deploying ML models for real-world applications serving multiple users. Demonstrated expertise through multiple GitHub repositories focused on ML projects, showcasing analytical and programming skills in creating data-driven solutions. Proven leadership in technical teams and hackathon competitions.

## EDUCATION

VIT Bhopal University	Bhopal, India
<b>Bachelor of Technology in Computer Science &amp; Engineering</b> (Specialization in AI & ML)	2023 – 2027
• 9.08/10 CGPA (Current)	
<b>Higher Secondary School Certificate</b> (HSSC)	2020-2022
• 85%	
<b>Secondary School Certificate</b> (SSC)	2018-2020
• 80%	

## SKILLS

**Technical:** Python3, Data Analysis, Machine Learning, Deep Learning, Data Structures, Natural Language Processing (NLP), Computer Vision, Neural Networks, Statistics

**Tools:** Jupyter Notebook, VS Code, Git & GitHub, Pandas, Matplotlib, Tesseract (OCR), Scikit-learn, TensorFlow, NumPy, PyTorch, Keras, Hugging Face Transformers, Streamlit, Docker, n8n (for workflow automation in ML pipelines), SQL, langchain, langgraph, langsmith

## CERTIFICATIONS

- AWS Certified Machine Learning Engineer - Associate – July'25 ([link](#))
- GEN AI using IBM Watsonx by IBM Developer Skill Network – June'25 ([link](#))

## EXPERIENCE

<b>UX Club</b> , VIT Bhopal	Bhopal, India
<b>Operations Manager, Tech Dept.</b>	December, 2024 – Present
<ul style="list-style-type: none"><li>• Leading the development of the club's website to serve a community of 1,000+ members.</li><li>• Participated in weekly R&amp;D discussions and contributed to architectural decisions.</li></ul>	

## PROJECTS

<b>Project Summary: Vaidyasetu</b>	May, 2025 – July, 2025
<ul style="list-style-type: none"><li>• Built VaidyaSetu – AI-driven healthcare prototype integrating telemedicine (WebRTC), OCR + LLM pipeline, and AI diagnostics, improving doctor–patient accessibility +35% (20 users).</li><li>• Engineered OCR–LLM workflow for structured report extraction + auto-scheduling (Google Calendar API), cutting manual scheduling effort by ~60%.</li><li>• Trained CNN (10K+ Kaggle images), achieving 96% validation accuracy in disease classification; integrated NLP chatbot, boosting report comprehension +40%.</li></ul>	
<b>Project Summary: LLaMA-3 QLoRA Fine-Tuning for Heart Disease Recommendations</b>	June, 2025 – July, 2025
<ul style="list-style-type: none"><li>• Fine-tuned LLaMA-3 8B model with QLoRA + LoRA adapters on a custom heart disease dataset, achieving 50% lower GPU memory usage while maintaining high response accuracy.</li><li>• Designed a preprocessing pipeline to convert 2,000+ JSON records into Hugging Face–ready datasets and streamlined publishing of datasets and models to the Hugging Face Hub, reducing manual effort by 70%.</li><li>• Optimized training workflow with transformers, TRL, accelerate, and bitsandbytes, implementing gradient checkpointing and AdamW-8bit optimizer, which increased training efficiency by 30% and ensured reproducibility through logged metrics.</li></ul>	

## ACHIEVEMENTS

- Winner of VIT Mother's Day Challenge, designing an innovative solution that strengthened engagement and awareness among 100+ participants.
- Led team to 3rd place in Hack4Health Hackathon at VIT