

# Abhay Singh Chauhan

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## Education

**VIT Bhopal University**

B. Tech Major in Computer Science and Engineering

CGPA: 8.34 / 10

Bhopal, Madhya Pradesh

Expected Sep 2026

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## Technical Skills

**Coding Languages:** Python, C, C++, JAVA, JS, MySQL, SQL, VectorDB, ChromaDB, MongoDB.

**Skills:** Machine Learning, Data Science, Artificial Intelligence, Python Development, Generative AI, Prompting, Computer Vision, Data Analysts, NLP.

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## Projects

### **Portfolio-Optimizer (Jan 2025 - Feb 2025)**

- Led a 4-member team in the Foss Hackathon in developing a portfolio optimizer web application by integrating LLM and doing NLP to understand the user inputs better.
- Attained precision via algorithm tuning and advanced language processing, optimizing the model with a substantial dataset and prompting, requiring only 1 PDF or text to process.
- Deployed a comprehensive technology stack to craft an efficient, user-friendly solution, prioritizing seamless GUI integration and robust data privacy measures with the help of Streamlit usability, achieving a 10% faster performance than the previous version.
- Optimized software usability by integrating cloud-based GroqAI with LLM, reducing local host load by 95%; leveraged Meta Llama 3.3 for improved responses and enabled GitHub collaboration, ensuring scalable performance, seamless deployment, and efficient multi-user access across platforms.

### **Sanskrit Text-To-Speech (Jan 2024 - May 2024) + Natural language processing (Jul 2023 – Aug 2023)**

- Implemented 4 transliteration methods to achieve accurate results for Sanskrit speech recognition from text.
  - Integrated with Google Translate and Microsoft Azure environments to develop a text-to-speech system with 90% accuracy.
  - Employed a neural network for a better understanding of transliteration and integrated our research on transliteration methods (3) and techniques into it.
  - Contributed to the development of a Language Guessing Program for the Android Club VIT, involving 30 team members and targeting 5 languages.
  - Synthesized artificial Intelligence and machine learning models to innovate the solution, enhancing program capabilities through the incorporation of 3 Python-based machine learning models.
  - As a dedicated contributor, the experience enriched my technical skills and solidified my commitment to making impactful contributions to AI and machine learning projects, collaborating with 29 other members.
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## Work-Experience

### **AI Intern @ SmartPrepper Technologies PVT. LTD (Jul 2024 - Dec 2024):**

- Presented machine learning and artificial Intelligence expertise by implementing large language models (LLMs) (3+) to develop a retrieval-augmented generation application with a customizable dataset.
  - Managed and addressed multiple client requests, ensuring high levels of satisfaction and effective communication with 3 teammates.
  - Worked with Django frameworks and RAG applications with the use of vector Databases and model prompting for the format-related output.
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## Activities

- Participated in Hacktoberfest to contribute to 2 open-source projects like tkreload with system codes for reloading the window and resume-scanner with LLM code, including the Llama 3.2 model in the workflow (Oct 2024).
  - Assisted GSSOC (GirlScript Summer of Code) this summer, aiding in developing 1 open-source project. Working on the Face-X repository, which works on the principle of computer vision with 90+% accuracy (May 2024).
  - Executed a fraud detection system that uses Natural language processing using random forest and decision trees, and 3 other different techniques to detect any type of fraudulent activities for the competition of UHackHive of Unisys (May 2024 - Jun 2024).
  - Engaged in Google Cloud Hack-a-cloud (Aug 2023), gaining expertise in Google's cloud, mastering 10+ cloud concepts, and implementing them with generative AI at the Gen\_AI hackathon matrixing on 20 + ML concepts (Mar 2024).
  - Collaborated with a team of 5 to be in the finals of the ThinkAI hackathon by making a customizable health-chat bot with the use of neural networks and Natural language processing to extract the keywords with an efficiency of 90% (Jun 2024 - Jul 2024).
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## Additional

**Certifications & Training:** 1. Machine Learning Specialization, Stanford(ongoing). 2. Udemy Data Science and Machine Learning Bootcamp. 3. Udemy Machine Learning A-Z: AI, Python & R. 4. Linux, Debian, and Ubuntu courses from The Linux Foundation

**Languages:** English, Hindi, Gujarati.

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## Hobbies

Playing Sports – Football, Cricket, Badminton. Dancing.