

ABHAY SINGH CHAUHAN

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LinkedIn | GitHub

Education

Bachelor of Technology, VIT Bhopal University, Bhopal, MP
Major in Computer Science Engineering

Expected May 2026
Cumulative GPA: 8.33/10

Technical Skills

Languages: Python, C, C++, JAVA, MySQL, VectorDB, ChromaDB, MongoDB.

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

Work Experience

AI Intern

Jul 2024 - Dec 2024

AI Intern @ SmartPrepper Technologies PVT. LTD

- 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.

Projects

PORTFOLIO OPTIMIZER (link)

Jan 2025 - Feb 2025

- Led a 4-member team at the Foss Hackathon to develop a portfolio optimizer web app that used LLM and NLP to interpret user inputs from a single PDF or text file.
- Optimized the model for 10% faster performance by integrating a cloud-based GroqAI to reduce local host load by 95%, leveraging Meta Llama 3.3 for improved responses.
- Enabled scalable performance and seamless multi-user access by deploying the solution on Streamlit and using GitHub for collaborative development, ensuring robust data privacy.

SANSKRIT TEXT-TO-SPEECH (link)

Jan 2024 - May 2024

- 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 3 transliteration methods and techniques into it making a research paper out of it for the comparison of transliteration models.

Achievements

- 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 efficiency (Jun 2024 - Jul 2024).
- Participated in Hacktoberfest to contribute to 2 open-source projects like TK-reload with system codes for reloading the window and resume-scanner with LLM code, including the Llama 3.2 model in the workflow (Oct 2024).
- Engaged in Google Cloud Hack-a-cloud (August 2023), gaining expertise in Google's cloud, mastering 10+ cloud concepts, and implementing them with generative AI at the GenAI hackathon, matrixing on 20 + ML concepts (Mar 2024).
- Developed a comprehensive data dashboard during a one-day Pragmatic Works Power BI Hackathon, leveraging key Power BI skills to analyze and visualize data.

Additional

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

Languages: Hindi , English , Gujarati