Abhay Singh Chauhan

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Education

VIT Bhopal University — Bhopal, Madhya Pradesh
B. Tech — Expected May 2026
Major in Computer Science and Engineering
Cumulative GPA: 8.28/10

Projects

1. **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..
2. **Sanskrit Text-To-Speech (Jan 2024 - May 2024) + Natural language processing (Jul 2023 – Aug 2023)**
   - 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.
   - 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 and techniques into it.

Work-Experience

- **Artificial Intelligence Intern (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.
  - Worked with Django frameworks and RAG applications with the use of vector Databases and model prompting for the format-related output.

Additional

- **Coding Languages**: Python, C, C++, JAVA, HTML, CSS, JavaScript, MySql
- **Technical Skills:** Machine Learning, Data Science, Artificial Intelligence, Data Structures, Web Development, Generative AI.
- **Certifications & Training:** 1. Machine Learning Specialization, Stanford(ongoing). 2. Udemy Web Development Course.
  3. Bits and Bytes Coursera. 4. Udemy 4 courses on Python, Machine Learning, and Data Science.
  5. Linux, Debian, and Ubuntu courses from The Linux Foundation
  6. Cloud Computing from NPTEL.
- **Languages:** English, Hindi, Spanish, Gujarati.

Activities

- Volunteered in Hacktober-Fest to contribute to open-source projects(2) like tkreload with system codes for reloading the window and resume-scanner with LLM code, including the Llama model in the workflow(Oct 2024).
- Assisted GSSOC(GirScript Summer of Code) this summer, aiding in developing my open-source project. Working on the Face-X repository, which works on the principle of computer vision (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 Hackacloud (Aug 2023), gaining expertise in Google's cloud, mastering 10+ cloud concepts, and implementing them with generative AI at the Gen_AI hackathon(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)
- Maintained a 100-day streak in Data Structures and Algorithms (DSA) coding, with a dedicated focus on enhancing conceptual understanding and mastering algorithms in many different coding languages(Python, C, C++, Java).

Hobbies

- Playing Sports – Football, Cricket, Badminton. Dancing. Book Reading – Self-Help books, History, Politics