Rishabh Raj Pandey

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Summary

Motivated software developer with strong skills in SQL, Python, and problem-solving. Pursuing a Bachelor's in Computer Science and Engineering, with a focus on data analysis and logical thinking. Seeking an internship to apply technical expertise and business acumen in a dynamic, hybrid work environment.

Education

GLA University **Mathura, UttarPradesh**
Bachelor's of Technology in Computer Science and Engineering *Sep/2022 – Present*

- **Cumulative GPA** : 7.1/10
- **Relevant Coursework** : Object Oriented Programming, Data Structures, Algorithm Analysis, Operating Systems, Database Management, Computer Networks, Computer Architecture, System Programming, Cybersecurity basics

Kendriya Vidhalaya **Almora, Uttarakhand**
Central Board of Secondary Education *2021 Graduate*

- **12th** : 83%

Projects

Healthcare Chatbot for Symptom Analysis | *Generative AI, NLP* **Github**

- Developed an advanced medical chatbot utilizing Generative AI and Natural Language Processing (NLP) techniques, achieving a response accuracy of over 85% in interpreting user symptoms.
- Incorporated a medical dataset in PDF format containing data on over 150 human diseases.
- Employed Chromadb(Vector database) for efficient storage and retrieval of medical data, facilitating personalized user experiences and continuous learning.
- Leveraged Google's GEMINI API for natural language understanding and providing relevant medical advice within 3 seconds on average.
- Designed a user-friendly web interface with HTML and CSS, ensuring seamless interaction across 5+ device types and optimizing performance to achieve loading time of under 3 seconds.

Parallel Graph Processing Library | *C++, Multi-threaded Library* **Github**

- Developed a C++ library for parallel graph processing utilizing multi-threading techniques, enabling the processing of graphs while reducing computation time by over 30%.
- Implemented parallel algorithms for BFS and DFS in a modular library, optimizing shortest path calculations and supporting various graph representations, including adjacency lists and matrices.
- Capable of processing large-scale graphs efficiently and supports systems with up to 64 cores, achieving performance improvements of up to 1.7x.

Technical Skills

Languages: C, C++, Java, Python, JavaScript, SQL
Development Tools: HTML, CSS, Flask
Database Tools: MySQL, MongoDB
Technologies: Linux, Git, GitHub, Anaconda, Eclipse