Rishabh Raj Pandey

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Summary

Motivated software developer with strong skills in Core JAVA, SQL 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** : 7.0/10
- **Relevant Coursework** : Object Oriented Programming, Data Structures ,Algorithm Analysis, Operating Systems, Database Management.

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

- **12th** : 83%

Projects

RL-Optimised-Compiler | *Compiler Design, Reinforcement Learning*   **Github**

- This project is a web-based, RL-optimized source-to-source compiler that translates code written in a custom high-level language into Python.
- Engineered a full-stack compiler using **Flask (Python)** and **vanilla JS** with real-time code execution under 2s.
- Designed a C-like language with **25+ tokens** and **15+ operators**, supporting arithmetic, conditionals, loops, and I/O.
- Visualized 6 key compiler phases: **lexical analysis**, **AST generation**, **semantic analysis**, **IR generation**, **IR optimization** and **code generation**.

Medical-Chat-Bot | *Generative AI, NLP*   **Github**

- Developed an advanced medical chatbot using **Python**, **Flask**, **HTML**, **CSS** and **Javascript**, serving 100+ unique user queries in testing.
- Incorporated a medical **dataset in PDF format** containing data on over **150 human diseases**.
- Employed **ChromaDB** to enable efficient vector search , improving retrieval accuracy by 30%.
- Integrated **Google's GEMINI API** to generate responses with 90% relevance and average response time under 3s.

Technical Skills

Languages: Core Java,JavaScript, SQL
Development Tools: HTML, CSS , Postman , React.js , Express.js , Node.js , Mongoose
Database Tools: MySQL, MongoDB
Technologies: Git, GitHub, Eclipse