Harsh Vishwakarma

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GitHub: github.com/Harshvishwa123

Education

- **Indraprastha Institute of Information Technology, Delhi**
  B.Tech in Computer Science and Engineering   2022 – Present
- **Kendriya Vidyalaya No. 2, Delhi Cantt**
  Class 12 (Science with Computer Science)   2021 – 2022
- **Kendriya Vidyalaya No. 2, Delhi Cantt**
  Class 10   2019 – 2020

Skills

- **Expertise:** NLP, Machine Learning, Data Structures and Algorithms, Operating Systems, OOP, DBMS, Web Development
- **Languages:** Python, Java, C, HTML
- **Tools/Tech:** VS Code, IntelliJ, Canva, Miro, MySQL, Linux
- **Relevant Courses:** Advanced Programming (Java), Algorithms, DBMS, Computer Networks, Network Science

Projects

- **Perspective-Aware Summarization of Healthcare Discussions**
  Generated structured summaries from health forums using FLAN-T5, BART, PLASMA. Incorporated weak supervision (Snorkel) and ensemble methods.
  Guide: Shad Akhtar, Team of 3 (Mar–Apr)
- **Flood Prediction using ML**
  Built a prediction model using high-resolution data to forecast flood risk with improved early warning accuracy.
  Guide: Jainendra Shukla, Team of 4 (Sep–Nov)
- **Online Grocery Application (CLI)**
  Java and MySQL-based application implementing triggers, transactions, and relational model principles.
  Guide: Mukesh Mohania, Team of 3 (Feb–May)
- **2D Game – "Stick Hero" in JavaFX**
  Developed using OOP concepts and FXML. Demonstrated inheritance, polymorphism, abstraction.
  Guide: Raghava Mutharaju, Team of 2 (Aug–Dec)
- **Assembler and Simulator for Custom RISC ISA**
  Built in Python with robust error handling for both assembler and simulator components.
  Guide: Sujay Deb, Team of 4 (Apr–Jun)
- **Protein Sequence Alignment Tool**
  Implemented DP-based alignment with secondary structure features like helices and beta strands.
  Guide: Jaspreet Kaur Dhanjal, Individual (Feb–Apr)

- **Custom Shell in C**
  Implemented a Linux shell supporting internal/external commands using system calls.
  Guide: Vivek Kumar, Team of 2 (Aug–Sep)

Work Experience

- Currently seeking industrial internship opportunities to apply academic knowledge in real-world settings. Possess strong programming skills and a collaborative mindset.

Interests

- Playing Cricket and Squash
- Reading about Foreign Affairs
- Traveling

Declaration: I hereby declare that the information provided is true to the best of my knowledge.

Harsh Vishwakarma
Date: May 19, 2025