KSHITIZ BHARDWAJ

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Computer Science undergrad (SRM University, Aug 2026) with strong fundamentals in data structures, system design, and backend development. Passionate about solving real-world problems through scalable code. Seeking a Software Engineering Internship at Google for Summer 2026.

**EDUCATION**

**SRM UNIVERSITY SONEPAT, HARYANA**

*Bachelor of Technology and Engineering* Aug 2026

* **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, DBMS, Computer Networks, Object-Oriented Programming, Software Engineering, Machine Learning (Intro), Cloud Computing (Basics)

**PROJECTS**

**Parallel Query Engine for Compressed Data – C++, Threads, zlib**

* Built a SQL-like engine to process .csv.gz files in-memory with live decompression
* Implemented custom tokenizer, parser, and vectorized group-by aggregations
* Achieved multi-threaded performance boost using std::thread and parallel parsing architecture

**Options Pricing Dashboard – *Python, Streamlit Web App***

* Built a Black-Scholes and Binomial Tree options pricing tool with real-time inputs
* Added Implied Volatility plotting and Greeks calculator
* Deployed live on Streamlit with 100+ users in first 10 days; improved option pricing speed by 2x

🔗 GitHub: <https://github.com/Kshitiz2121/Options-Pricing-Dashboard.git>

**In-Memory File Sync Engine – C, File Systems, Conflict Resolution**

* Designed a daemon-like tool to track file versions in memory and detect/resolve merge conflicts before disk write
* Implemented 3-way merge logic with line-by-line diff using ANSI coloring in terminal
* Used stat, dynamic allocation, and hashing to simulate a Git-like resolver

🔗 GitHub: <https://github.com/Kshitiz2121/FileSyncEngine>

**AI-Powered Terminal Assistant – Python, Embeddings, Subprocess**

* Built a developer-friendly terminal assistant that converts natural-language prompts into CLI and Git commands
* Used embedding similarity and vector search to match commands; added caching and auto-correction features
* Demonstrated practical NLP application using Python's subprocess and FAISS-based intent matching

**SKILLS**

**Technical Skills:** Python, C, C++, Java, Git, SQL

**Libraries/Tools:** NumPy, Pandas, Matplotlib, Scikit-learn, Jupyter, Hadoop (Basics), GitHub

**Cloud & DevOps:** Basics of AWS, Docker, Linux

**Other:** API Integration, Debugging, Agile Development

**Activities:** *National-Level Football Player– U14 Championship*