

KSHITIZ BHARDWAJ

H.no-29, Type-1-A, MDU CAMPUS, ROHTAK, HARYANA, INDIA
+91 8307343649 | kshitizbhardwaj76@gmail.com | GitHub: <https://github.com/Kshitiz2121>

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

Bachelor of Technology and Engineering

SONEPAT, HARYANA

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