Vidhan Verma
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ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Aug, 2022 - Present	B.TECH CSE	Graphic Era Hill University Dehradun	7.7/10.0
2021	12^{th}, C.B.S.E	Anand Swaroop Arya Saraswati Vidya Mandir	86.50 %
2019	10^{th}, C.B.S.E	Anand Swaroop Arya Saraswati Vidya Mandir	89.80 %

INTERNSHIPS

- **SDE Intern, TBI-GEU (Nov 2024 – Feb 2025)**
  - Engineered and deployed AI full-stack solutions, enhancing Expense Manager through scalable APIs.
  - Collaborated in agile workflows, expanding expertise across databases, REST services, CI/CD, lifecycle.
  - Designed backend structures ensuring data consistency, performance, and secure integration across.
  - Documented workflows, optimized collaboration using Git, and contributed to production deployment.

PROJECTS

- **Expense Manager with Scalable Architecture and Intelligent Insights (Feb 2025)** | *React, Node.js, Express, MongoDB, Python, REST APIs, Testing* GitHub
  - Designed to help users track, analyze expenses, and deliver AI-powered insights for 50 daily users.
  - Built full-stack system using React, Node.js, MongoDB for handling 200 transactions daily.
  - Integrated ML models with Python, scikit-learn, GenAI, and anomaly detection for expense analytics.
  - Visualized spending and AI-driven insights through charts to enhance budgeting and cut costs 20%.
  - Implemented modular APIs with authentication ensuring seamless scalability and user experience.
- **C Language Compiler (May 2025)** | *C++, Lex Analysis, Parsing, Code Generation, Syntax Tree* GitHub
  - Designed and implemented a C compiler to understand core compilation phases and optimization.
  - Built lexical analyzer, parser, and syntax tree modules with error handling and symbol table mapping.
  - Applied recursive descent parsing and modular architecture to convert C code to intermediate form.
  - Focused on scalable design, improving maintainability and readability of 300+ lines of C++ code.
  - Tested with multiple C programs ensuring accuracy in tokenization, parsing, and code translation.
- **Ransomware Simulation with File Encryption and Decryption System (Jul 2024)** | *Python, Cryptography, AES, Socket Programming, Flask, REST API, MongoDB* GitHub
  - Developed a controlled ransomware simulation to demonstrate encryption and secure file recovery.
  - Integrated AES-based encryption using Python's Cryptography library with secure key management.
  - Implemented Flask backend and REST APIs to simulate remote key storage and unlock mechanisms.
  - Designed MongoDB schema to store logs, encryption metadata, and event-based activity tracking.
  - Focused on security and full-stack structure to demonstrate end-to-end system implementation.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, C++, Java
- **Libraries & Frameworks:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, TensorFlow, PyTorch
- **Data Tools & Databases:** MySQL, MongoDB, Excel, Power BI, Tableau
- **Development Utilities:** Git, Jupyter Notebook, VS Code, Anaconda, Postman

ACHIEVEMENTS

- Solved 190+ algorithmic problems on **LeetCode** and completed 200+ coding problem on Coding Ninjas.
- CODING NINJA - Completed Data Structures in C++ course, Coding Ninjas (Sep 2023 - Jan 2024)
- SWAYAM - Successfully completed the 4 credit course Cyber Security, Tools, Tech and Counter Measures.
- Built and deployed predictive ML models using Python and scikit-learn, achieving actionable insights from real-world datasets.