

SHIVAM RAI

Varanasi, Uttar Pradesh, India

☎ 6307253732

✉ s.raio2072002@gmail.com

🌐 [linkedin.com/in/shivam-rai-598191287](https://www.linkedin.com/in/shivam-rai-598191287)

🐙 github.com/S-h-i-v-a-m-R-a-i

Education

Graphic Era Hill University

Bachelor of Technology in Computer Science and Engineering CGPA:7.06

August 2022 – July 2026

Dehradun, Uttarakhand

International Hindu School

Intermediate 67.00

2020 – 2021

Varanasi, Uttar pardesh

International Hindu School

Matriculation 68.66

2018 – 2019

Varanasi, Uttar pardesh

Relevant Coursework

- Data Structures
- Database Management
- Systems Programming
- Algorithms Analysis
- Artificial Intelligence

Internships

SDE Intern, TBI-GEU

Nov, 2024 - Feb, 2025

- Engaged in hands-on learning and development of web applications. Gained comprehensive experience in full-stack development, building both frontend and backend of websites. Focused on understanding the working dynamics of a tech organization and honing technical skills through real-world projects. Developed a production-ready full-stack web application named Online Food Ordering System.

Projects

Real-Time Chat Application | MERN Stack (MongoDB, Express.js, React.js, Node.js), Socket.IO

Aug, 2025

- * Designed and built a responsive full-stack chat app supporting one-on-one and group messaging.
- * Integrated Socket.IO to enable real-time bi-directional communication between users.
- * Achieved sub-100ms message delivery latency for 30+ concurrent users during testing.

Autism Prediction - Machine Learning | Python, Pandas, NumPy, Scikit-learn

Jan, 2025 - Feb, 2025

- * Developed a machine learning classifier for predicting autism by analyzing behavioral data from the Autism Prediction dataset, including data preprocessing, model training using classification algorithms, and performance evaluation with over 90% accuracy.

C Language Mini Compiler | C++, BNF Grammar, Compiler Design Principles

Nov, 2024

- * Built a mini C compiler in C++ implementing 5 phases: Lexical Analysis, Syntax Analysis, AST, Semantic Analysis, and Code Generation.
- * Designed a custom lexer using enums and structs to tokenize input into identifiers, literals, operators, and keywords.
- * Developed a Symbol Table to track variable/function declarations and types during parsing and semantic analysis.

Simulating a Ransomware Attack | Python, Cryptography Library, PyInstaller, Virtual Machine

Mar, 2024

- * Developed a ransomware simulation in Python, demonstrating encryption and decryption of user files.
- * Utilized the Cryptography library to implement AES encryption for file security, simulating ransomware behavior.
- * Conducted the simulation in a controlled virtual environment to safely test ransomware behavior.
- * Focused on ethical hacking principles and creating awareness of ransomware threats and prevention strategies.

Technical Skills

Languages: C, C++, Python, JavaScript

Developer Tools: VS Code, Kaggle, Jupyter, Git, Github, Google Cloud Platform

Technologies/Frameworks: GitHub, Machine Learning, Pandas, Linear Regression, XgBoost, Random Forest, Numpy, Next.js, React.js, Drizzle ORM

Personal Skills

- * Strong Communication
- * Adaptability
- * Collaborative Teamwork

Certification

- * AWS Machine Learning Learning Plan : Issue Date: Oct' 2025
- * AWS Certified Cloud Practitioner : Issue Date: 10 Mar'25
- * NPTEL Certificate : Earned a certificate for completing the 4-credit course Cyber Security, Tools, Techniques, and Counter Measures with a consolidated score of 70 percent marks (offered by Prof. Dr. Nilesh K Modi of Dr. Babasaheb Ambedkar Open University, Ahmedabad.
- * Cisco Networking Essentials Certification : Issue Date: 2024