

SHIVAM RAI

Varanasi, Uttar Pradesh, India

• 6307253732 • s.rai02072002@gmail.com • linkedin.com/in/shivam-rai-598191287 • github.com/S-h-i-v-a-m-R-a-i

Education

Graphic Era Hill University	Aug 2022 – Present
<i>Bachelor of Technology in Computer Science (CGPA: 7.06/10)</i>	<i>Dehradun, Uttarakhand</i>
International Hindu School	2021
<i>Intermediate (CBSE) - 67%</i>	<i>Varanasi, Uttar pardesh</i>
International Hindu School	2019
<i>Matriculation (CBSE) - 68.66%</i>	<i>Varanasi, Uttar pardesh</i>

Internships

Front-End Web Development Intern, Edunet Foundation (IBM SkillsBuild)	Aug 2025 – Oct 2025
– Selected for the AICTE-Edunet 6-week virtual cohort focused on front-end development using HTML, CSS, and JS.	
– Completed IBM SkillsBuild coursework while improving skills in HTML layout, CSS styling, and JS logic .	
– Built a practical project under guidance, applying HTML for structure, CSS for styling, and JavaScript for interactivity.	
– Maintained communication, met milestones, followed program guidelines, and demonstrated progress in front-end skills.	
SDE Intern, TBI-GEU	Nov 2024 – Feb 2025
– Engineered a production-ready Full-Stack Online Food Ordering System from scratch, implementing 8+ core features (e.g., cart, payment integration, user authentication) and designing it to support 100+ concurrent users.	
– Collaborated via Agile practices, enhancing backend data workflows, version control , and CI/CD processes.	
– Designed backend data integrity checks , optimized API performance, and contributed to production deployment.	

Projects

Autism Prediction - Machine Learning— Python, Pandas, NumPy, Scikit-learn	May 2025
– Modeled a machine learning classifier for predicting autism by analyzing behavioral data from the Autism Detection dataset, including data preprocessing, feature scaling using normalization algorithms, and performance evaluation with over 90% accuracy.	
– Implemented Selenium to create an instance of Chrome in order to interact with the correct elements of the web page.	
– multi-model classification pipeline for early-stage autism spectrum disorder (ASD) prediction by analyzing behavioral and demographic features from the Autism Detection dataset.	
C Language Compiler — C++, Lex Analysis, Syntax Analysis, Syntax Tree, Code Generation	Jan 2025
– Implemented lexical analysis to tokenize source code using defined patterns and efficient character stream processing key.	
– Built a down Recursive Descent Parser to generate an Abstract Syntax Tree (AST) from grammar specifications.	
– Designed semantic analysis to validate types cleanly, resolve identifiers, manage scopes, and detect compile-time errors.	
– Developed a code generation module converting validated AST nodes cleanly into intermediate representation for output.	
Ransomware Simulation System — Python, pathlib, Cryptography, Tkinter	Jul 2024
– Developed a GUI-based ransomware simulator for demonstration and awareness of encryption-driven data lock scenarios.	
– Implemented encryption and decryption Python's Cryptography (Fernet) module to ensure confidentiality and recovery.	
– Designed a Tkinter interface enabling users to trigger encryption, restore files, and observe the ransomware workflow.	
– Emphasized ethical usage, explaining attack behavior safely in controlled conditions for training and educational learning.	

Technical Skills

- **Languages:** C, C++, Python, JavaScript
- **Frameworks/Libraries:** React, Node.js, Express, Cryptography
- **Databases:** MongoDB, MySQL
- **Tools:** Git, Jupyter Notebook, VS Code, Postman

Certification

- AWS Machine Learning Learning Plan : Issue Date: Oct' 2025
- Completed Data Structures in C course Udemy (Jan 2024), improving problem-solving foundation.
- Cisco Networking Essentials Certification : Issue Date: 2024
- Completed SWAYAM 4-credit Cyber Security course (May 2024) offered by Dr. Babasaheb Ambedkar Open University.