Dipanshu Kumar
Muzaffarpur, Bihar 843112
+91 8873647997 dipanshukumar9018@gmail.com linkedin.com/in/dipanshu-kumar14/ github.com/dipanshu8873-spec

Projects

Network Scanner | *Python, Capy* **May 2026 - Jun 2026**

- Developed a Python-based network scanning tool to identify active devices on a local network using IP and MAC addresses.
- Implemented ARP-based network discovery to detect reachable devices within a specified subnet.
- Designed a command-line interface that allows users to specify the target network for scanning.
- Repository Link: **https://github.com/suraj-singh12/flipkart-project**

Access Control Matrix | *Python* **Apr 2026 – May 2026**

- Engineered an access control system to manage users, domains, object types, and permissions.
- Integrated user authentication and authorization features to control access to protected resources.
- Configured permission management and access verification to determine whether a user is allowed to perform a specific operation.
- Repository Link: **https://github.com/suraj-singh12/Project-SearchEverywhere**

Cipher Implementation | *Python* **Mar 2026 – Mar 2026**

- Architected a stream cipher using a password-derived seed and a linear congruential keystream generator, enabling secure file.
- Executed XOR-based encryption and decryption for binary files and integrated form validation with AJAX-based appointment.
- Validated the system by encrypting and decrypting sample data and comparing the recovered files with the originals.
- Repository Link: **https://github.com/suraj-singh12/Project-SearchEverywhere**

Phishing URL Detector | *Python* **Jan 2025 – Feb 2026**

- Created a Python-based phishing URL detection tool to identify suspicious URLs using multiple security indicators.
- Established a risk-scoring mechanism based on HTTPS usage, IP-based URLs, suspicious keywords, URL length, and domain structure.
- Introduced a command-line interface to generate risk scores and explain detected security indicators.
- Repository Link: **https://github.com/suraj-singh12/Project-SearchEverywhere**

Certificates

From Zero to Database Developer (SQL & PostgreSQL) **Aug 2026**
Lovely Profes sional University

Hone Communication Skills for Successful Career **Mar 2026**
Lovely Profes sional University

Cyber Security and Applied Ethical Hacking **Mar 2026**
Infosys Springboard

Level Up Cybersecurity with Generative AI **Feb 2026**
IBM SkillsBuild

Skills

Languages / Technologies: Python, C++, HTML, CSS, SQL, Linux, Wireshark, Nmap Git & GitHub

Domain Skills: Cybersecurity, Computer Networks, Ethical Hacking, Data Structures and Algorithms

Soft Skills: Critical Thinking, Leadership, Time management, Problem Solving

Education

Lovely Professional University **2025 – 2027**
Master of Computer Applications - CGPA: 6.89 *Phagwara, Punjab*

Babasaheb Bhimrao Ambedkar University **2022 – 2025**
Bachelor of Computer Ap plications - CGPA : 7.37 *Muzaffarpur, Bihar*

L P Shahi Inter College **2021 – 2022**
12th - Percentage: 46.40% *Muzaffarpur, Bihar*

R K High School **2019 – 2020**
10th - Percentage: 43.60% *Muzaffarpur, Bihar*