PRATHAM CHAUHAN

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EDUCATION

Thapar Institute of Engineering and Technology (TIET)   **2022 – 2026**
B.Tech in Computer Science and Engineering   *Patiala, Punjab*

TECHNICAL SKILLS

Programming: C/C++, Python — **Web:** Flask, HTML/CSS, Streamlit — **ML/NLP:** Scikit-learn, Pandas, NumPy, TF-IDF

Cybersecurity: Fileless Malware Detection, MITM Simulation, Network Traffic Analysis — **Tools:** Kali Linux, Bettercap, Wireshark

Visualization: OpenGL, GLUT — **Blockchain:** Solana, Anchor, Merkle Trees — **OS:** Windows, Linux

EXPERIENCE

Blockchain Intern – ELC Summer Internship, TIET   **June 2025 – July 2025**
Patiala, Punjab
- Developed a Solana-based secure logging prototype using Merkle tree batching for Windows event logs.
- Integrated IPFS for off-chain storage and built a Streamlit interface for real-time verification visualization.
- GitHub: github.com/chauhan-pratham/solana-secure-logging-prototype

Cybersecurity Summer Trainee – Acmegrade   **Aug 2023 – Oct 2023**
Remote
- Simulated MITM attacks using Bettercap and Wireshark; tested internal threat visibility.
- Automated sniffing and redirection using custom caplets leveraging Bettercap modules (e.g., `arp.sniff`, `hstshijack`).
- Compiled detailed technical reports and logs based on packet capture analysis and simulations.

ACADEMIC PROJECTS

Sentinel Monitor – System Dashboard   **Jan 2025 – May 2025**

- Developed a real-time monitoring dashboard with dynamic graphs for CPU, memory, and bandwidth usage.
- Built using C++, OpenGL, Windows API, and GLUT.

Email/SMS Spam Classifier   **Aug 2024 – Nov 2024**

- Implemented custom NLP pipeline with TF-IDF vectorization and logistic regression for spam detection (~95% accuracy).
- Deployed on Streamlit with interactive filtering and text preview interface.
- Tech Stack: Python, Scikit-learn, Streamlit, NLTK

ChatMinds – Flask-based Chatbot   **Jan 2024 – May 2024**

- Built a Flask chatbot to respond to user intents using JSON-based dialogue management.
- Created interactive UI with HTML/CSS for web deployment.
- Tech Stack: Python, Flask, HTML, CSS, JSON

CERTIFICATIONS

AWS Academy Cloud Security Foundations   **May 2025**
Topics: IAM, Secure Networking, Shared Responsibility, CloudTrail

AWS Academy Cloud Security Builder   **May 2025**
Topics: Encryption, KMS, AWS CloudWatch, Security Automation