PRATHAM CHAUHAN

✉ chauhanpratham812@gmail.com   in LinkedIn URL   🛡 Portfolio Website

SUMMARY

Computer Science undergraduate with a strong foundation in **automation, data analysis, and software engineering principles**. Possesses hands-on experience with **Python, C++, SQL, and Bash scripting** through projects in **cybersecurity and blockchain**. Proven ability to develop prototypes, analyze workflows, and deliver secure, high-performance **automation solutions**.

EDUCATION

Thapar Institute of Engineering and Technology   Patiala, Punjab
B.E Computer Science and Engineering | Current **CGPA: 7.15 /10**   2022-2026

TECHNICAL SKILLS

- **Programming Languages**: C++, Python, SQL, Bash/Shell Scripting
- **Technologies & Tools:** Git, Linux, Flask, Streamlit, Scikit-learn, NLTK, Bettercap, Wireshark
- **Concepts**: Cyber Security, Ethical Hacking, Object Oriented Programming

WORK EXPERIENCE

Blockchain Intern – ELC Summer Internship, TIET   Jun'25–Jul'25
- Architected a **tamper-proof auditing system** on Solana using Merkle Tree batching to secure high-volume Windows Event Logs, achieving **99% cost reduction** compared to standard blockchain anchoring.
- Built a full-stack verification prototype (FastAPI/Vanilla JS) featuring "Zero-Touch" Managed Identity authentication and a real-time dashboard for instant cryptographic log auditing.

Cybersecurity Summer Trainee – Acmegrade   Aug'23–Oct'23
- Executed a simulated MITM attack to attempt **HSTS Hijacking**, configuring **Bettercap** to confirm modern HSTS policies successfully blocked HTTPS downgrades.
- Automated network sniffing and redirection via custom caplets, **streamlining repeat test execution by 50%**.

PROJECTS

SMS Spam Classifier | Python, Scikit-learn, Streamlit, NLTK   Aug'24–Nov'24
- Developed an **NLP pipeline** using TF-IDF vectorization and logistic regression, achieving approx. 95% accuracy
- Utilized **NLTK** for preprocessing and deployed the model with a **Streamlit** web interface.

ChatMinds – Flask-based Chatbot | Python, Flask, HTML, CSS, JSON   June'24–May'24
- Engineered a context-aware chatbot using **TF-IDF & Cosine Similarity** to handle unstructured queries with high accuracy.
- Optimized backend for **serverless deployment (Vercel)** and implemented dynamic suggestion chips to enhance UX.

CERTIFICATIONS & ACHIEVEMENTS

- AWS Academy Cloud Security Foundations
- AWS Academy Cloud Security Builder
- Raised CGPA from 4.77 to 7.15. Bronze medalist in district-level Karate tournament.

LEADERSHIP & VOLUNTEERING

Organizer & Anchor – Alumni Meet, Sunflower Model High School   Nov'23–Dec'23
- Led and co-hosted the alumni meet with a 4-member team, managing logistics and engaging 100+ attendees.

Volunteer – Pratigya Abhiyan   Oct'22–Present
- Served as Class In-charge for Class 7, managing a team of 30 volunteers.
- Conducted educational activities for 70+ underprivileged children and organized various events.