TOUHEED SHAIKH

AI & Data Science Student | Software Engineering | AI & Cybersecurity

CONTACT

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EDUCATION

Rizvi College of Engineering

B.E. — Artificial Intelligence & Data Science

Expected Graduation: 2028

CGPA: 7.19 | Latest SGPA: 8.40

TECHNICAL SKILLS

Languages

Python, JavaScript, SQL

Development

React, Vite, FastAPI, REST APIs, React Native, Expo

AI / ML

Machine Learning, Reinforcement Learning, Graph Neural Networks, LLM Applications, Generative AI

Cybersecurity

Phishing Detection, Threat Intelligence, Security Analysis, Cybersecurity Automation

Databases / Infra

PostgreSQL, Supabase, Redis

Tools

Git, GitHub, VS Code, Jupyter

PROJECTS

Nexora AI — AI-Powered Cybersecurity Platform

NeoFuture 2026 · S.E. Mini Project

- Developed FastAPI backend functionality and the API layer for a cybersecurity platform covering phishing, malware, and breach detection.
- Integrated threat-intelligence services (Google Safe Browsing, VirusTotal, Have I Been Pwned) and LLM-based analysis (Gemini, Groq) for URL, file, email, and SMS phishing risk assessment.
- Worked across the web (React, Vite), mobile (React Native, Expo), and Chrome extension components alongside the backend, using Supabase, PostgreSQL, and Upstash Redis.
- Used generative AI tools for rapid prototyping, debugging, and learning throughout development.

PentestingAgent — Cybersecurity Reinforcement Learning Simulation

- Built a custom Gymnasium environment simulating penetration testing (scanning, exploitation, privilege escalation, lateral movement) on generated enterprise network topologies.
- Trained a PPO agent (Stable-Baselines3, MLP policy) in Red Team vs. Blue Team simulations, with topologies generated using NetworkX.
- Prototyped a graph neural network component (PyTorch Geometric) for future integration into the policy, and implemented attack-path visualization with automated report generation.

NeetCode Solutions

- Practiced data structures and algorithms — arrays, trees, graphs, and dynamic programming — through the NeetCode roadmap for coding-interview preparation.

HACKATHONS & LEADERSHIP

Team Lead — HackSpark 2.0 (Thakur Shyamnarayan College); NeoFuture 2026 (L.R. Tiwari College of Engineering); HackNiche 4.0; HackScript Cosmic Cypher (Thakur Ramnarayan College of Engineering)

- Led problem discussion, solution design, and edge-case review across all four teams.
- Served as a primary builder in two of the four projects, while coordinating technical direction, implementation, and final presentations for the team.

ACHIEVEMENTS

2nd Place — FrontFrame *(1-Hour Landing Page Development Competition)*

- Built *"Veloria Grand,"* a resort landing page, within a one-hour time limit — view project