

UDBHAV Hackathon 2025: Problem Statements & Project Ideas

Cybersecurity Domain

Please choose one problem statement from the following and think of how to work on it. You will be starting to code your project on the 26th of October during the hackathon.

1. Network Traffic Anomaly Detector

- Description: Real-time monitoring system that analyzes network traffic patterns and flags unusual activities such as spikes, port scans, or malware communication.
- Key Features: Packet capture (Scapy); anomaly detection algorithms; live dashboard; alert notifications.

2. Web Vulnerability Scanner

- Description: Automated crawler that tests web applications for OWASP Top 10 vulnerabilities (SQLi, XSS, CSRF, etc.) and generates remediation reports.
- Key Features: Crawler; payload injection; report generation; severity scoring.

3. Phishing Email Generator & Detector

- Description: Platform that crafts realistic phishing templates for awareness drills and uses ML to classify incoming emails as malicious or benign.
- Key Features: Template library; simulation engine; ML classifier; reporting dashboard.