

Cyber Security

SL.N O	Problem Statement	Description
Software		
01	Data Breach Simulation Training Platform	Develop a gamified simulation tool for students and employees to learn about phishing and ransomware attacks.
02	Secure Document Sharing with Blockchain	A platform to share academic or official documents with time-limited, tamper-proof blockchain links.
03	Privacy Advisor App for social media	Build an app that scans users' social media accounts and gives privacy recommendations in real time.
04	Threat Intelligence Aggregator	A real-time tool for security analysts to get alerts from dark web, CERTs, and malware feeds.
05	College Campus Cybercrime Reporting Tool	A secure and anonymous platform for reporting digital abuse or cyberbullying within college communities.
06	AI for Malware Behavior Classification	Build a sandboxed system to analyze and classify malware behavior using machine learning.
07	Fake News and Deepfake Detection Engine	Create a browser extension that verifies content authenticity using image and video analysis APIs.
08	Online Harassment Tracking and Reporting Dashboard	Create a secure platform for victims of cyberstalking, non-consensual image sharing, or trolling to document, anonymize, and report incidents to cyber cells.
09	Safer Internet Plugin for Young Girls	Design a browser extension that blocks harmful DMs, warns about deepfake content, filters explicit imagery, and gives self-protection tips.
10	Cybersecurity for Space Tech & Satellite Infrastructure	Satellite systems are vulnerable to spoofing, jamming, and cyberattacks. Protecting space assets is vital for communication, defense, and navigation.
Hardware		
01	Offline USB Antivirus Shield	Build a hardware USB that scans other USBs for malware without needing to connect to a PC.
02	Encrypted Voice Communication Headset.	A Bluetooth-enabled device for private, end-to-end encrypted communication
03	Smart Lock with OTP & Facial Recognition	Design a secure access system for offices and labs with OTP fallback and facial verification.

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04	Secure Wearable Authentication Badge	A badge that uses biometrics and proximity sensors to unlock labs or devices without passwords.
05	RFID-Jamming Wallet for Personal Safety	Design a wallet that disables RFID access from unauthorized readers to prevent data skimming.
06	Secure USB Firewall Device	A microcontroller-based device that acts as a firewall between the USB and host computer.
07	Biometric Key Generator	Hardware device that creates secure cryptographic keys using biometric inputs like fingerprints.
08	USB-Based Privacy Shield for Public Use Devices	Build a physical device that provides secure access to personal data only after biometric verification — ideal for kiosks, hostels, or women's shelters.
09	Offline Data Vault Keychain.	Create a hardware keychain that stores sensitive legal, health, or identity documents for women in abusive environments with stealth lock access
10	Hardware-Based Intrusion Detection System (H-IDS) for IoT Networks	With the rapid increase in connected IoT devices (smart homes, agriculture, health, industry), they are becoming major targets for cyberattacks. Traditional software-based intrusion detection systems are often too slow or resource-heavy for edge environments.