



# GPCSSI-2025

## Our Journey as a Cyber Warrior



### Industrial Internship Details:-

Prem Singh -2315300018

Dushyant Nagal-2315300005

Platform:- Gurugram Cyber Cell Summer  
On-Site Internship

### Academic Information

Mentor:- Soumya Shrivastava

University:-GLA University, Mathura

Department: Computer Science



Cyber Security



Technical Skills



Team Collaboration



Achievement



# About GPCSSI 2025:-

## Program Details

- Organized by Gurugram Police Cyber Cell & DAV Public School, Sector 49
- 12th Edition of National Cyber Security Summer Internship
- Duration: 48 days (on-site) + project during off-days

## Mission

Build cyber-aware and technically skilled youth to combat evolving cyber threats



## Selection Statistics

**12,000+**  
Applicants

**1,100**  
Selected

**550**  
Warriors

**550**  
Ambassadors



# Internship Workflow Timeline:-



## 48-Day Journey at Gurugram Cyber Cell



**Step 1**

Orientation & Awareness



**Step 2**

Technical Labs



**Step 3**

Case Studies & Field Exposure



**Step 4**

Project Work (SKIDScan)



**Step 5**

Final Evaluation & CTF

📍 All sessions conducted on-site at Gurugram Cyber Cell

⌚ Project built during breaks and off-days

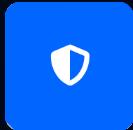


# Awareness & Knowledge Sessions:-



## Cyber Laws & IT Act 2000

Legal framework and regulatory compliance in cybersecurity



## Cyber Awareness & Online Safety

Best practices for secure digital behavior and threat prevention



## Drugs & Cyber Helpline Case Study

Real-world analysis of drug-related cybercrime investigations



## Real Case Study: Mule Accounts

Investigation techniques for financial fraud and money laundering



# Awareness & Knowledge Sessions:-



## Cyber Harassment & Social Media Crimes

Digital forensics for online harassment and social platform abuse



## AI vs Cyber Security

Artificial intelligence applications in threat detection and defense



## Data Recovery & Advanced Collection Techniques

Forensic methods for evidence preservation and data extraction



# Expert Mentorship:-

## Cyber Forensic Officers

Direct mentorship from experienced Cyber Forensic Officers providing real-world insights into digital investigation techniques and evidence handling procedures.

## Dr. Rakshit Tandon

Expert guidance from renowned cybersecurity professional Dr. Rakshit Tandon, gaining insights into advanced cyber threat landscape and defense strategies.

## SOC Environment

Hands-on exposure to Security Operations Center environment, learning real-time threat monitoring and incident response protocols.



## Evidence Collection

Practical sessions on digital evidence gathering and preservation techniques



## Malware Investigation

Hands-on analysis of malicious software and attack vectors



# Mini Project SkidScan

## Dark Web Monitor & Web Forensics

### 🎯 Objective

Detect and analyze leaked credentials & stolen data from dark web sources for cybersecurity intelligence gathering.

### </> Tech Stack



Python



Tor API



BeautifulSoup



SQLite

### ★ Key Features



#### Safe .onion Crawling

Securely crawls dark web sites for sensitive data detection



#### Smart Filtering

Filters false positives using keyword scoring algorithms



#### Report Generation

Generates structured reports for comprehensive analysis



### 🏆 Outcome

Received **Appreciation Letter** from Gurugram Cyber Cell for innovation and technical excellence in cybersecurity research.



# SkidScan Workflow:-

## Crawler

Scans .onion sites safely through Tor network

## Filter Engine

Keyword scoring to eliminate false positives

## Report Generator

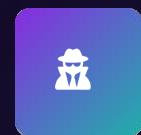
Comprehensive analysis reports for investigation

## Security Architecture



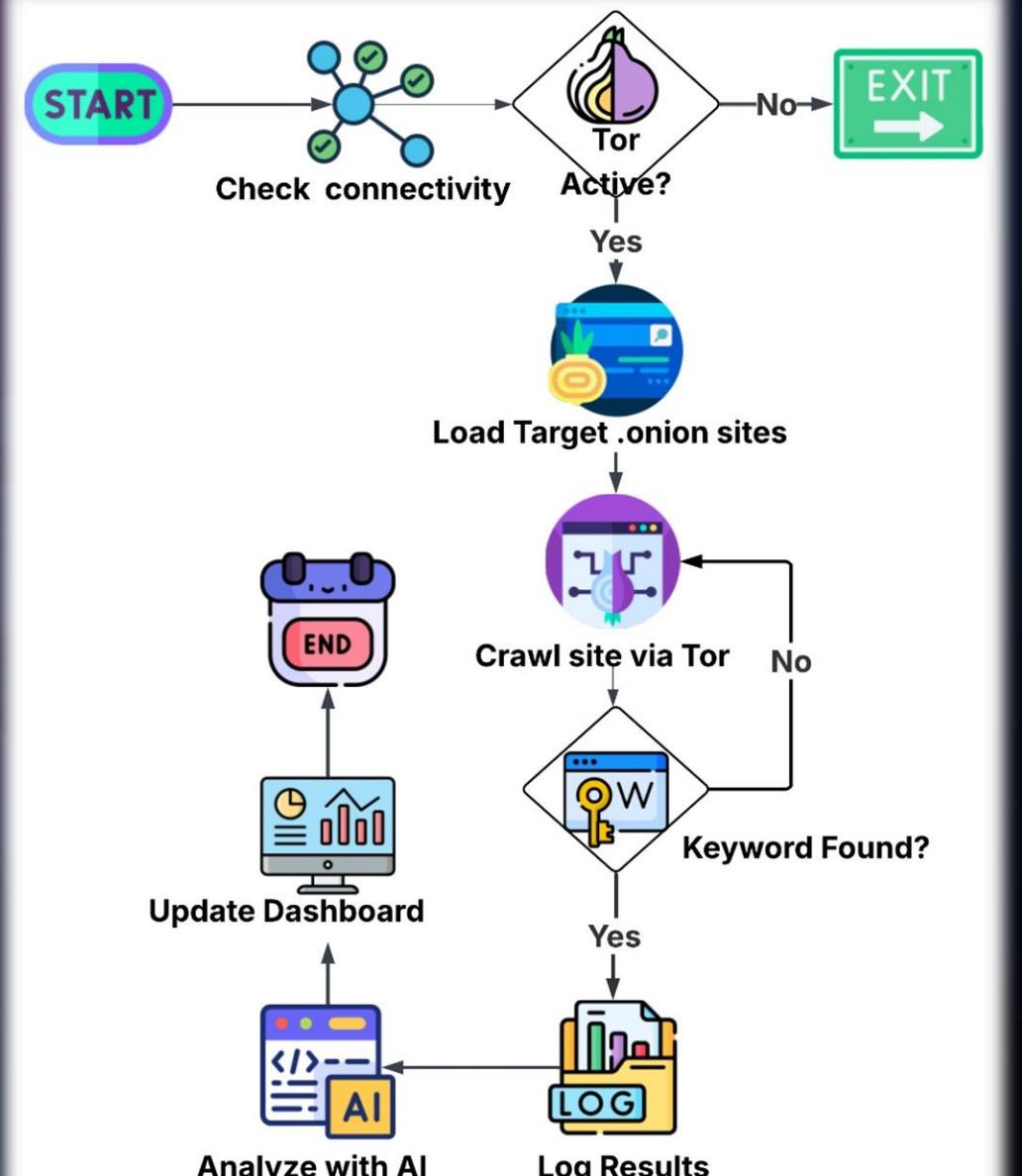
### Sandboxed VM

Isolated virtual environment for safe operation



### Tor Bridge

Anonymous, secure crawling through encrypted network





# CTF Competition:-



## Competition Overview

- 🌐 Web Security Challenges
- 📡 Network Analysis Tasks
- 🔍 Digital Forensics Investigations



## Achievement

# TOP-10

Rank Among Nationwide Interns

### CTF Scoreboard

RANK	TEAM NAME	LEADER	MEMBERS	TOTAL SCORE
1	Fl4gz0nF1r3	CW122	No other members	3927
2	Go easy on us!! :)	CW055	CW046, CW255	3542
3	Expecto Patronum	CW314	CW421, CW171	3458
4	DoomBots	CW007	CW395, CW037	3385
5	AreyGang	CW189	CW185, CW161	3213
6	bl4nk	CW144	CW186, CW300	3113
7	DDITLab	CW362	CW261, CW385	2516
8	CW247	CW247	CW249	2139
9	ScriptKiddie	CW143	No other members	2042
10	Anonymus	CW290	CW269 No other members	1982 1922



### Skills Enhanced



#### Teamwork

Collaborative problem-solving and coordination



#### Analytical Skills

Critical thinking and pattern recognition



#### Investigation

Evidence analysis and threat detection



# Technical Skills & Tools Learned

## ❖ Cybersecurity Tools

﴿ Wireshark

﴿ Burp Suite

﴿ Autopsy

﴿ Nmap

﴿ FTK Imager

## 🧠 Core Skills

\_MICROPHONE\_ Forensics Analysis

⚠ Threat Detection

☒ SOC Log Correlation

## ⚖️ Legal & Compliance

⌚ Digital Evidence Handling  
Proper collection and preservation

♾ Chain of Custody  
Legal documentation standards



# Challenges & Solutions:-

## Challenge

### Safe Dark Web Access

Ensuring secure navigation through potentially dangerous networks

### False Positive Filtering

Reducing noise in threat detection systems

### Time Management

Balancing project work with other commitments

## Solution

### Sandboxed VM + Tor Bridge

Isolated environment with secure routing protocols

### Keyword Scoring Algorithm

Intelligent filtering based on weighted scoring

### Off-Days Project Work

Strategic scheduling during available time slots



# Key Achievements:-



**48-Day Internship**  
On-Site Completion



**SCIDScan Development**  
Dark Web Crawler



**Appreciation Letter**  
For Innovation



**Top-10 Rank**  
Cyber Warrior CTF



**8 Expert Sessions**  
Law, AI, Awareness & Forensics



# Conclusion & Acknowledgment:-

## Gurugram Police Cyber Cell .

Grateful to all mentors and officers for their invaluable guidance, expertise sharing, and unwavering support throughout this transformative internship experience.

## GPCSSI 2025 Team .

Special thanks to the GPCSSI 2025 Team and college faculty for their continuous support, encouragement, and creating this incredible learning opportunity.

From the Surface Web to the Dark Web  
every click is a responsibility.



# THANK YOU

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