WELCOME EVERYONE

WHOAM!!!

- Apurv Singh Gautam | ScOrpiOn | ASG_ScOrpiOn
- Speaker at Null the Open Security Community, Pune Chapter
- Areas Threat Intelligence, Network Pentesting/Security
- Given many workshops and talks on Cybersecurity and Privacy
- × Play CTFs
- × 5 Years



ALL ABOUT CYBERSECURITY Demand, Research Areas, Future

Prospects and more

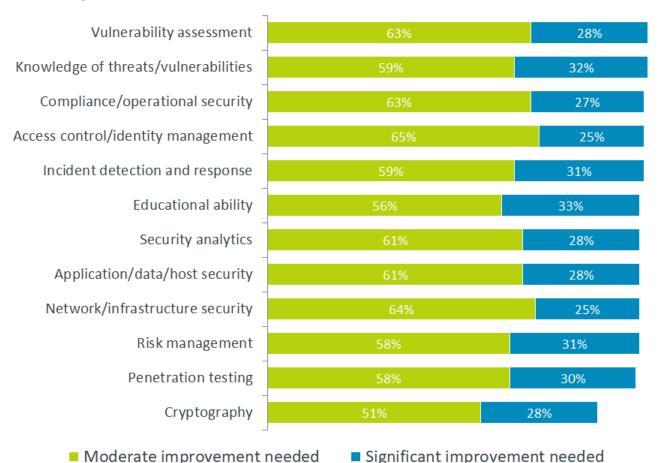


STATISTICS

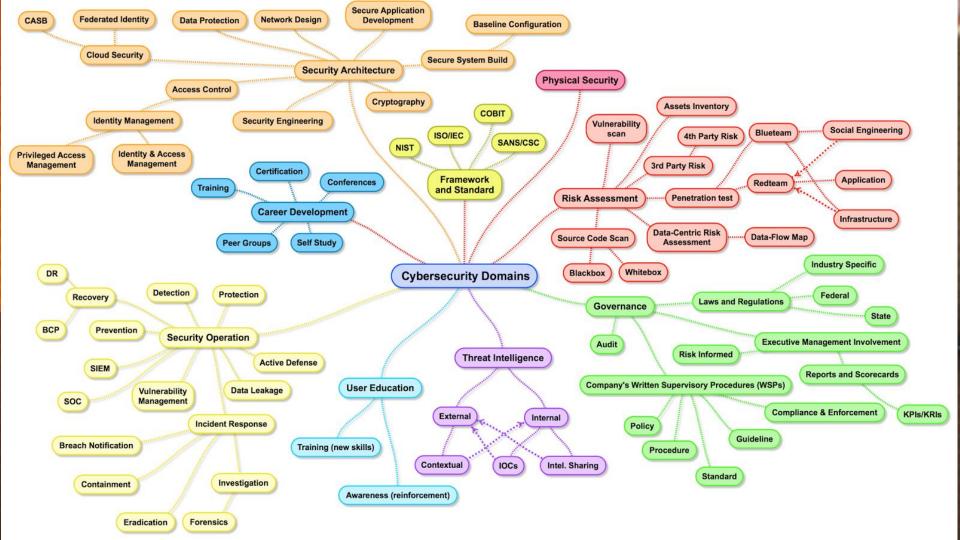
- Cybersecurity Professionals get Rs. 22–32 lakh with 50– 100% hikes (before 25%)
- × More than 30,000 jobs are available in India
- Increased to 150% from Jan 2017 to March 2018
- Cybersecurity companies reported growth of 50-60% (start-ups & in-house cybersec ops)
- × 3.5 million job openings over the globe by 2021

CYBER SECURITY SKILL GAP

Improvement needed across a broad set of skills



BY COMPTIA



KEY RESEARCH AREAS

- × Data Security & Privacy
- × Mobile Platform & Application Security
- × IoT Security & Privacy
- × Computer & Software Security
- Cloud Computing Security
- × Human Behaviour-Based Security
- × Security Policy & Management



7,000,000,000



Total number of IoT devices worldwide



FUTURE TRENDS/RESEARCH AREAS

- × IoT Security
- × Threat Intelligence
- × ML/AI in Security
- × Automotive Security
- × ICS Security
- × Satellite Security
- Social Engineering

COMMON CYBERSECURITY JOB ROLES

- × Cyber Security Analyst
- × Secure Software Developer
- Cyber Security Engineer/Architect
- Vulnerability Analyst/Penetration Tester (Web/Mobile/Network)
- × Threat Hunter
- × Malware Analyst
- × CISO

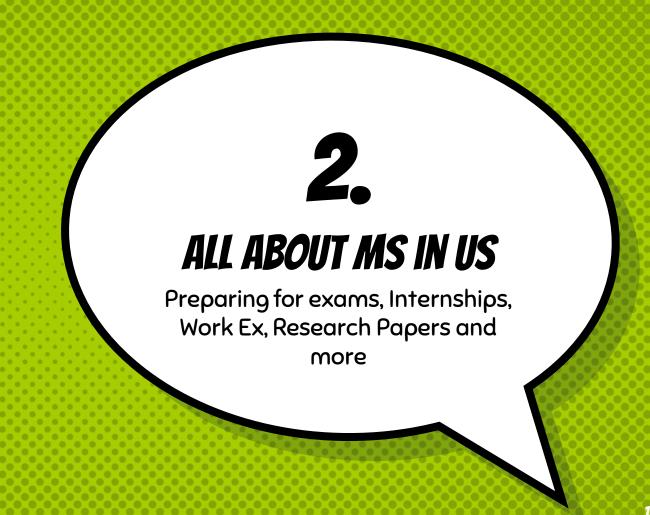


20 95 OF TOTAL

A

% of Women in Cybersecurity





ADMITS FOR MS IN CYBERSECURITY











GRE - 304 (Q:161, V:143)

TOEFL - 102

GPA - 8.86

Internship – 10 months

Research Paper - 1

EXAMS (GRE/TOELF)



Graduate Record Examination



Test of English as a Foreign Language

BUILDING PROFILE RESEARCH INTERNSHIPS/ PAPERS **PROJECTS** WORK EX

GOOD COLLEGES FOR MS IN CYBERSECURITY























MY PROJECTS/PAPERS (RELATING TO CYBERSECURITY)

- Recent Trends in the Era of Cyber Crime (Research Chapter)
- Anonymous Traffic Network (Research Paper)
- Question Mark (Python Flask Project)
- × Database Encryption (C++ Project)
- v UserCred Hack
- × Reverse HTTP Shell

INTERNSHIP PROJECTS (10 MONTHS)

- Pastebin Scraping
- General Forum Scraping
- Dark Web Forum Scraping
- Dark Web Dump Shops Scraping

HACKER FORUM EXPLOIT & CLASSIFICATION OF PROACTIVE CYBER THREAT INTELLIGENCE

B.TECH RESEARCH PROJECT

WHAT IS CYBER THREAT INTELLIGENCE ??

CTI includes both the information relevant to protecting an organization from external and inside threats as well as the processes, policies and tools designed to gather and analyse that information.



1_500_000_000_00Cyber crimes created over \$1.5 trillion

in profits in 2018

Pages (203): 1 2 3 4 5 203 Next »			New Thread			
Server Stress Testing SYT Ma						
Thread / Author	Replies	Rating	Last Post [asc]			
Important Threads						
> ROOTERBOOTIN CUSTOM SOURCE 5 DAY BOOT TIME UNLIMITED ATTACKS STOP BTN (Pages: 1 2 3 4 8) Lennie Small	77		Today 09:00 PM Last Post: C•ɲĐʉCҗe⊅			
SynStress Best on HF Huge XML-RPC DDoS Unlimited Boots 100% Uptime Stop Btn (Pages: 1 2 3 4 79) Joey	780		Today 08:53 PM Last Post: Joey			
► TacticalPrime Layer4&7 Down protected hosts Unmatched \$5 350 Gbps TN (Pages: 1 2 3 4 8) fgsfakεν™	71		Today 06:17 PM Last Post: Morrissey			
➤ CriticalBOOT Unlimited BOOTS OVH Stop/Resume/Renew VIP 300Gbps API (Pages: 1 2 3 4 130) stratos	1,298		Today 05:27 PM Last Post: stratos			
Fury Booter 5-10Gbps Per Attack Guarantee Layer 4 & Layer 7 Instant Activation (Pages: 1 2 3 4 5) Confirm	49		Today 04:46 PM Last Post: Confirm			
► reBOOT Since 2013 BEST LAYER 4/7 DDOS 100% Uptime PP/BTC Unlimited Boots (Pages: 1 2 3 4 11) Xepher The Cat	103		Yesterday 05:25 PM Last Post: Xepher The Cat			
► ILLUMINATI / / EXTREME POWER / / OFFICIAL GROUP STRESSER / / PP AND BTC PAYMENTS / (Pages: 1 2 3 4 14) Bandors	136		09-20-2016 10:34 PM Last Post: Omniscient			

EXAMPLE OF A HACKER FORUM

Normal Threads

WHAT WE USED?





Natural Language Analysis with Python NLTK











Relevant	http:/www.crackingarena.com/all-ocx-files- need	None	NaN	_2540echo_257Fuw8ecr
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http://www.crackingarena.com/accessdriver-

http://www.crackingarena.com/c-force-v1-01b-

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Relevant

Relevant

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EXAMPLE OF HACKER FORUM DATA

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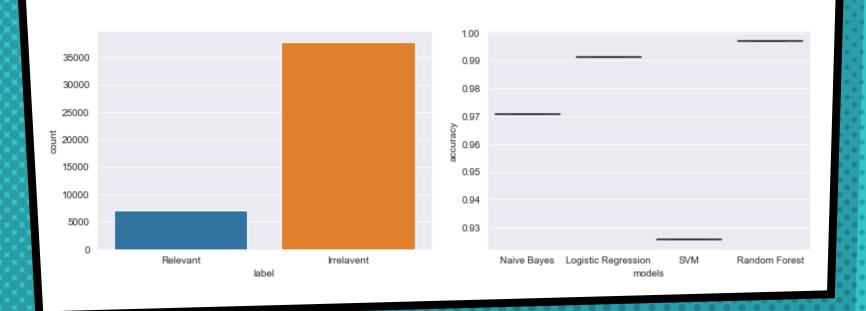
NaN

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RESULTS





You can reach out for any further questions:

Website - apurvsinghgautam.me Email - apurvsinghgautam@gmail.com Social Handle - apurvsinghgautam (LinkedIn, Quora)

