

# Arushi Rai

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## Education

### NMIMS's Mukesh Patel School of Technology Management & Engineering

May 2024

Bachelor of Technology in Computer Science Engineering (Specialization: Cybersecurity) - Semester 6 CGPA: 3.87/4.0

Relevant Coursework: Blockchain Security & Forensics, Cloud Security, Cryptography, Cybersecurity Fundamentals, Cybersecurity Risk Management, Data Privacy, DevSecOps, Digital Forensics & Incident Response, Human & Legal Aspects of Cybersecurity, Human-Centric Cybersecurity, Network Security, Reverse Engineering & Malware Analysis, Vulnerability Assessment & Penetration Testing.

### R.N. Podar School – Class 12, CBSE

July 2020

Board Exams Score: 95.2%

### Pawar Public School – Class 10, ICSE

June 2018

Board Exams Score: 96.67%

## Skills

**Programming Languages** Python, JavaScript, SQL, NoSQL

Agile, BeautifulSoup, Bootstrap, Expressjs, L<sup>A</sup>T<sub>E</sub>X, Malduck, Matplotlib, Natural Language Toolkit, Nodejs, NumPy,

**Frameworks & Libraries** OpenCV CLAHE, OS, Pandas, Regex, Requests, SciPy, Scikit-learn, Selenium, Sentiment VADER, Speech Recognition, Helia, Dotenv

**Technical Skills**

AD, AWS, GCP, Docker, Ghidra, Hashcat, Hydra, IDA Pro, John the Ripper, Kali Linux, Metasploit, Nessus, Netdis-cover, Nmap, IPFS, VirtualBox, UTM, Visual Studio, VirusTotal API, Win-Hex, Aerocrack, Autopsy, Dirb, GitHub Actions, Google Cloud Platform, ManageEngine Endpoint Central, Trend Micro Deep Discovery Inspector

ArcGIS, LabVIEW, Leadership and Management, Presentation & Communication Techniques, Technical Report & Article Writing, VAPT Report Writing

**Others**

## Experience

### TATA Advanced Systems Ltd. - Cybersecurity Intern, Information Technology & Business Applications

May - July 2023

- Strengthened cybersecurity knowledge by studying CISSP domains
- Aligned data classification and DLP measures with the organizational policy to facilitate ISO 27001:2022 compliance; spearheaded the mechanisms by researching and coordinating vendors' PoCs
- Automated remote scanning and verification of possible IoCs as part of malware incidence response
- Underwent training for end-point security, asset management, email server management

### Article on Multiclass Classification in Machine Learning - Freelance Technical Content Writing

July 2022

### Tutoring for C, Python3, MySQL, MS Access

2021 - 2023

## Projects

**Sentinel Share** Decentralised data and resource-provisioning system with end-point security

**Raccoon Stealer** Python app to create memory dump integrated with the VirusTotal API to detect malware artifacts

**Scam-Shield** Classifier for malicious URLs - Random Forest algorithm

**VAPT for Humbleify** 9 logins captured, and privilege escalated, 18 vulnerabilities and sensitive information acquired

**Capture the Flag Corrosion2** Root flag found and privilege escalated

**House Automation Dashboard** LabVIEW Project for Supervisory Control and Data Acquisition

**Cryptography** Python codes for elementary, intermediate cryptographic systems, their decryption and cryptanalysis

**Lemonade Stand Business** Using MS Access and SQLite for setting up a business flow and subsequent decision-making using reports

## Extra-curriculars

Harvard WorldMUN (Taiwan) - Successfully cleared 4 internal qualification rounds to become a part of the Indian delegation

2024

MPSTME's Students' Council's Research Cell: Secretary

2023

Social Conclave (MPSTME's Socio-political conference backed by the United Nations): Vice-Chairperson

2023

Taqneeq 15.0 (MPSTME's official technical fest): Vice-Chairperson

2023

Sattva (MPSTME's official cultural fest): Head of Department: Social Media and Content Writing

2023