Richa Dasila

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EDUCATION

- **Indian Institute Of Information Technology, Allahabad** — Prayagraj, India
  Master of Technology - IT Cyber Law And Information Security; GPA: 8.6 — *July 2022 - Present*
  Courses: Network Security, Information Security Laws, Cyber Security and Digital Forensics

- **Uttrakhand Technical University** — Uttrakhand, India
  Bachelor of Technology - Computer science and Engineering; Percentage: 72% — *Aug 2016 - May 2020*
  Courses: Operating Systems, Data Structures,Algorithms,Computer Networks

- **Kendriya Vidyalaya Cantt,Haldwani** — Uttrakhand, India
  Central Board of Secondary Examination ; Percentage: 89% — *2015*

- **Kendriya Vidyalaya Cantt,Haldwani** — Uttrakhand, India
  Central Board of Secondary Examination; GPA:8.8 — *2013*

PROJECTS

- **Metamorphic Malware Detection** : Present
  This project is a comprehensive investigation into metamorphic malware detection, focusing on developing and applying de-obfuscation techniques to enhance cyber security and protect against evolving malware threats.

- **Forensic Analysis Cyber Attack on the Network Deception Techniques** : December 2023
  (Honeytrap, Python, Kibana, Elastic-search, Docker)
  Cyber attackers use deception techniques to evade the traces of attacks in the network. As a digital practitioner, created a Python-based program to parse the log files generated by the honeytrap and analyzed it using the ELK stack, thereby automating the process of evaluating deception techniques in cyber-security.

- **Noting-Wizard, Web Application** : September 2023- October 2023
  (MERN Stack)
  Development of a robust cloud-based note management system using the MERN (MongoDB, Express, React, Node.js) stack. This project is designed to empower users to create, store, edit, and access their notes securely from anywhere which significantly improves users' productivity by providing a versatile platform for note creation, storage, and management.

SKILLS SUMMARY

- **Tools:** Wireshark,Autopsy,x64Debugger,PE-Studio
- **Languages:** C, C++, SQL
- **Front-End:** HTML,CSS,Bootstrap,React
- **Back-End:** Java-Script,Node.Js,Express
- **Others:** Socket Programming
- **Soft Skills:** Leadership, Teamwork, Public Speaking, Creativity, Adaptability

RESEARCH WORK

- **EICC 2024**
  The European Interdisciplinary Cybersecurity Conference, Greece
  - **Successfully submitted paper on "Analysis of MLP for Dynamic Malware"**: This research paper suggests using a Multi-Layer Perceptron (MLP) for analyzing dynamic malware. The dataset used includes 42,797 malware API call sequences and 1,079 goodware API call sequences extracted from the cuckoo sandbox. By using MLP as the chosen machine learning technique,compares it with different models, the paper also addresses a few research questions exploring how feasible, necessary, and effective this approach is for dynamic malware analysis.

EXPERIENCE

- **IIIT Allahabad**
  Teaching Assistant — *August 2022 - Present*
  - **Duties** : Facilitating classroom engagements by offering tutorial support, assessing homework and exams, conducting oral examinations, appraising assignments, resolving queries, providing project guidance, and more..
  - **Additional Responsibility**: Supporting educators in creating a well-organized and conducive learning atmosphere through classroom management and document coordination.
  - **Courses Handled**: Theory of Computation, Network Security, Software Engineering   .

ACHIEVMENTS & CERTIFICATIONS

- Succesfully completed **Complete 2024 Web Development Bootcamp** certification.
- **Qualified Gate 2022** with 96.00 percentile
- **Cordinated the annual fests, sports fests, and conferences at the college level.**
- Completed **The Bharat Scout and Guide Adventure Programme** with 'A' Grade