SHASHIBHUSHAN DAS

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EDUCATION

Course	Institution	Year	Performance
B.Tech Computer Science and Engineering	Vellore Institute of Technology, Vellore	2021-Present	8.8
AISSCE	Delhi Public School, Rohini	2021	94.8%
AISSE	Delhi Public School, Rohini	2019	93.6%

WORKING EXPERIENCE AND PROJECTS

Defence Research and Development Organisation (DRDO) | Summer Intern
August 2023 - September 2023
- Developed an AI model to identify SQL injection vulnerabilities by analyzing website URLs, enhancing the security and preventing unauthorized access to sensitive data.
- Collaborated with cross-functional teams to integrate security measures and ensure scalability, working in an Agile environment.

National Thermal Power Corporation (NTPC) | Internship Trainee
November 2023 – December 2023
- Developed a student management system using ASP.NET and CRUD operations. Designed and implemented a database using Microsoft SQL Server to store and manage student data.
- Streamlined data entry and management processes, improving overall efficiency and accuracy.
- Collaborated with the team to ensure seamless integration and functionality of the system, conducting thorough testing and debugging.
- Documented the project, providing detailed user guides and technical documentation for future reference.

Malware Classification and Detection | SmartInternz
September 2023 – November 2023
- Led a team of four to develop machine learning models for accurate malware classification and real-time detection, integrating robust data collection and continuous learning for enhanced cybersecurity.
- Implemented a user-friendly interface for security professionals, enabling precise malware identification and classification using tools such as Python, TensorFlow, Scikit-learn, and Flask.

AI for detecting system vulnerability
- Developed an AI-based system vulnerability assessment project, leveraging machine learning algorithms to proactively identify and mitigate security weaknesses.
- Enhanced cyber defense by automating threat detection and response, reducing risk and ensuring system integrity.
- Contributed to a more secure digital environment.

Intelligent Research Paper Recommendation and Subject Classification System
- Built a dual-function system for research paper recommendations and subject area prediction, using a Multi-Layer Perceptron (MLP) for large-scale topic classification and Sentence Transformer for recommendation.
- Conducted data cleaning and preprocessing on a large academic paper dataset to enhance prediction accuracy and recommendation relevance.

POSITIONS OF RESPONSIBILITY AND ACADEMIC ACHIEVEMENTS

Senior Core Committee Member (IET - VIT) *Mar 2022 – Aug 2024*
- Organized large-scale events such as HackOff, Technical Quizzes and Speaker sessions.
- Facilitated the induction of 10 junior core members through individual sessions aimed at familiarizing them with the technical divisions of the club.

Senior Core Committee Member (IEEE-PCS) *Mar 2022 – Aug 2024*
- Mentored junior members, guiding them through technical and professional development.

German Youth Camp - Awarded a scholarship to attend a German youth camp in Sri Lanka.

Silver Medalist - Conferred with silver medal for outstanding scholastic performance for 5+ years in succession through classes VI-XII.

E-Cell Futurpreneur - Lead my team over to 4th position in a business simulation competition over 100 teams participating.

A2 German Certification - Successfully completed A2 certification in German language.

SKILLS

- **Tools:** MS Office Suite: Word, Excel, PowerPoint, Cybersecurity tools – Nmap, Nessus Scan
- **Coding Languages:** Java, Python(Basics), Sql (Basics)
- **Technical Knowledge:** Data Science, Machine Learning, Probability and Statistics, Artificial Intelligence, Data Structures and Algorithms, Database Systems, Operating Systems, Computer Networks, Data Analytics and Virtualization
- **Soft Skills:** Critical Problem-Solving, Strong Communication, Creative Thinking

EXTRA-CURRICULAR

Basketball (Men's), VIT Fresher's Tournament, 2021
- Captained a 5-person basketball team to the semi-finals (out of 100+ teams)

Badminton (Men's), VIT Premier League, 2022
- I reached the semifinals of the VIT Premier League in badminton.

Other interests and hobbies: Sports (Cricket, Badminton), Hiking, Cycling, Mobile and PC Video games

Languages: Hindi (Native), English (Fluent), German (Certified A2 level – Basic)