

Ishita Tomar

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EDUCATION

Graphic Era University <i>B.Tech CSE (V Sem, CGPA: 9.35)</i>	2023-Present
Mount Litera Zee School <i>Intermediate (88.2%)</i>	2023
St. Marys Secondary School <i>High School (98.8%)</i>	2021

INTERNSHIPS

Threat Prism (IIT Bhubaneswar) <i>Cyber Security & Ethical Hacking Intern</i>	Mar 2024 – Apr 2024
<ul style="list-style-type: none">Developed basic skills on Kali Linux for penetration testing using tools like Nmap and Wireshark.Deployed a network and port scanner to detect live hosts and open ports.	
Personifwy (IIT Roorkee) <i>Data Science Intern</i>	Aug 2024 – Sept 2024
<ul style="list-style-type: none">Developed foundation of core concepts of ML and DLCreated a spam detections system using NLP techniques like BOW, TF-IDF and ML algorithms like Naive Bayes.	

PROJECTS

Sentiment Analysis using Wrapper and Filter-Based Algorithms 🔄	Jul 2024 – Dec 2024
<ul style="list-style-type: none">Developed a sentiment analysis system on X data using TF-IDF for feature extraction.Implemented bio-inspired algorithms: PSO and GWO by applying both filter-based and wrapper-based approaches using LR.	
Machine Learning Based Phishing Attack Detection 🔄	Jan 2025 – Jun 2025
<ul style="list-style-type: none">A machine learning system capable of identifying phishing websites and emails.Developed and evaluated multiple classifiers: Random Forest, XGBoost, Support Vector Machine (SVM), Logistic Regression and Naive Bayes along with deep learning models (CNN, BiLSTM) and combined the output of all these algorithms using ensemble learning.	
Custom Operating System Kernel 🔄	Jul 2025 – Dec 2025
<ul style="list-style-type: none">Developed in a modular structure using C for core logic and Assembly language for hardware-level operations.Implemented process scheduling (Round Robin, Priority), memory management (paging, segmentation, LRU) and modular kernel subsystems for process management, synchronisation and system calls for stable system performance.	
Oil Supply Chain Management 🔄	Jul 2025 – Dec 2025
<ul style="list-style-type: none">Created a database system using MySQL to manage data.Used ML models (Linear Regression, Isolation Forest) for prediction of production and detect equipment issues improving efficiency.	

SKILLS

Languages: C, C++, Python, Java

Frontend: HTML, CSS, JavaScript

Database: SQL, MySQL

Tools: Excel

Version Control: Git, GitHub, GitLab

RESEARCH WORK

- . Research paper on Machine Learning Envisioned Mechanism for Phishing Attack Identification through URLs presented at the IEEE International Conference on Computer, Information and Telecommunication Systems (CITS) 2025, Colmar, France in July, 2025 published by IEEE at DOI: 10.1109/CITS65975.2025.11099199.
- . Research paper on Sentiment Analysis Using Wrapper and Filter Based Bio-Inspired Algorithms has been communicated to International Journal of Computational and Experimental Science and Engineering (IJCESEN).

HACKATHONS

- . Participated in Graph-e-thon organised by Graphic Era University collaborating in a team to develop solutions for real world problems.
- . Participated in SIH organised by Ministry of Education (MoE), Government of India collaborating in a team to design innovative solutions .

HOBBIES

- . Playing Basketball
- . Cooking