

# Tulika Tewari

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## Education

### Netaji Subhas Institute of Technology (NSIT)

MTech in Computer Science

GPA: 8.27

New Delhi

2021 – 2023

### Mody University

BTech in Computer Science

GPA: 7.86

Rajasthan

2015 – 2019

## Work Experience

### Netaji Subhas University of Technology

RESEARCH ASSISTANT

- Working on SERB-SURE sponsored project focusing on building AI based security system for IoT network.

New Delhi, India

2024 – Present

### Amazon

SDE INTERN

- Contributed to the Worldwide Returns organization, streamlining the customer returns experience for 310 million customers
- Revitalized an existing architecture, optimizing workflows and reducing SDE efforts by 70%
- Transformed the Self-service product, simplifying configuration changes across Returns teams. Implemented CRUD functionalities, resulting in saving 48 SDE weeks per year.

Hyderabad, India

Jan 2023 – July 2023

### Aricent Technologies

SOFTWARE ENGINEER

- First 5 months was serving as a FT Intern.
- Involved in automating testing of the product
- Resolved critical client defects and introduced new features in the latest product releases.

Gurugram, India

Feb 2019 – Jan 2020

## Skills

**Programming Languages:** Java, C++, Python

**Full Stack:** AngularJS, Spring, Django, MySQL

**Version Control:** Git

**Research Interests:** Security, Responsible AI, HCI

## Research Publication & Projects

### An Application-Oriented Review of Blockchain-Based Recommender Systems - 2022

Solidity

ICICC'23

### Lightweight Intrusion Detection System for IoT Environment through Knowledge Distillation and Quantization - 2024

Python

DESIGNED A LIGHTWEIGHT HYBRID CNN-BiLSTM IDS FOR RESOURCE CONSTRAINTS ENVIRONMENT IMPLEMENTING COMPRESSION TECHNIQUES.

IEEE ANTS '24

### Towards White-Box IDS: Integrating explainability in IoT ecosystems - 2024

Python

INTEGRATED SHAP AND LIME FOR FEATURE ENGINEERING & BUILDING A MORE TRANSPARENT IDS FOR IoT ENVIRONMENT.

NCC '25

### Lightweight Incremental Learning framework for IoT network using self distillation- 2025

Python

PROPOSED A INCREMENTAL LEARNING FRAMEWORK THAT MITIGATES CATASTROPHIC FORGETTING WHILE BEING LIGHTWEIGHT, FOR EDGE DEPLOYMENT.

Communicated - IEEE transactions on  
forensics and security