**SHIVAM AGGARWAL**

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**EDUCATION**

**THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PATIALA, PUNJAB** Cumulative GPA: 8.95

Bachelor of Engineering in Computer Science, Sep 2021 – July 2025

Relevant Coursework : OS, DBMS, Data Structures & Algo, Computer Network and Security(Elective)

**DASMESH PUBLIC SCHOOL, MUKERIAN, PUNJAB**

CBSE Senior Secondary School - Class 12th , Aug 2021 – School Topper Percentage: 97.4

CBSE High School - Class 10th , July 2019 – Third Position Percentage: 96.6

**PROJECT EXPERIENCE**

**PHISHING AND SUSPICIOUS WEBSITE SENSING:** Aug 2023 – Nov 2023

*Cyber Security Principles & Machine Learning*

* Engineered machine learning models for predicting phishing websites by leveraging a comprehensive dataset with both phishing and legitimate URLs.
* Extracted crucial features from URL and website content to enhance model accuracy in distinguishing between phishing and legitimate web entities.
* Systematically compared and evaluated the performance levels of each model, contributing to the development of robust solutions for internet security.
* Technological Stacks: Python ; Models used: Logistic Regression, KNN, Random forest, XGBoost Classifier

**PRECISION FLOOD INUNDATION FORECAST VIA SPATIAL DATA INTEGRATION:** Oct 2023 – Present

*AI-ML based GIS(Google Earth Engine) web portal at Smart India Hackathon 2023*

* Addressed critical flood management challenges for Indian states by assessing spatial extent using 2D interpolation of past imageries using AI-ML models.
* Integrating water gauge data and historical imagery fetched by Google Earth Engine(open source GIS) for precise flood mapping and efficient rescue operations.
* Projection of the extent of inundation corresponding to the forecasts of flood level in a river using Technological Stacks: Geographic Information System(Google Earth Engine), Python, Geopandas, HTML, CSS, JavaScript.

**LEADERSHIP**

**PARYAVARAN WELFARE SOCIETY**: TIET, Patiala, Punjab Aug 2021 – Present

*Discipline & Motivation In-charge*

* Fostering a motivated and dedicated team by developing initiatives and programs that enhanced morale to maintain biodiversity and energy resources.
* Focus on the significations related to environmental and social degradation.

**LEAD TECH SOCIETY**: TIET, Patiala, Punjab Jun 2022 – Present

*Core Member*

* Actively contributing to the planning and execution of various technology-centric initiatives within the organization.
* Ensure effective collaboration with fellow Core members to drive innovative projects, foster a collaborative environment within the Society.

**SKILLS AND INTERESTS**

* Proficient in C++, C, Python, Computer and Network Security, Data Structure and Algorithms, Cloud Computing in Amazon Web Services.
* Soft Skills: Collaboration, leadership and active learning.