

# Tahsin Tajwar Tanni

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## Profile

I am a final-year Computer Science and Engineering student at BRAC University, currently working on a research paper focused on adversarial attacks on large language models (LLMs) in the field of cybersecurity and AI. With a solid academic background and practical research experience, I am passionate about data science, machine learning, Web development, artificial intelligence, blockchain and computer architecture. Right now, my focus is on refining my talents and contributing to significant forward-thinking tech projects.

## Skills

- **Programming Languages:** Python, SQL, Assembly, Verilog/VHDL, HTML, CSS, C, solidity
- **Frameworks Libraries:** Python frameworks, OpenGL, JavaScript
- **Hardware and tools:** VLSI Design, Arduino, STM32, emu8086, Quartus , raspberry pi
- **Version Control:** Git, GitHub

## Education

<b>BRAC University</b> , BSc in Computer Science and Engineering	2022 – 2026
• GPA: 3.58 / 4.00 (current)	
<b>Govt. Haji Muhammad Mohsin College</b> , Higher Secondary Certificate (HSC)	2018 – 2020
• GPA: 5.00 / 5.00	
<b>Bangladesh Mohila Samity Girls' High School and College</b> , Secondary School Certificate (SSC)	2004 – 2018
• GPA: 5.00 / 5.00	

## Projects

### [github.com/TahsinTanni/CineMetrics\\_MLproject](https://github.com/TahsinTanni/CineMetrics_MLproject) CineMetrics – MLproject

- A machine learning project designed to empower film producers and stakeholders with predictive insights into audience response.
- Tools Used: pandas, NumPy, scikit-learn, matplotlib, seaborn

### [github.com/TahsinTanni/vae-dec-clustering-uncertainty.git](https://github.com/TahsinTanni/vae-dec-clustering-uncertainty.git) vae-dec-clustering-uncertainty

- This project is the implementation and analysis of a Variational Autoencoder (VAE) combined with Deep Embedded Clustering (DEC) for unsupervised image clustering and also explores uncertainty quantification (via entropy and latent variance) to evaluate clustering correctness and model confidence.
- Tools Used: python, pytorch, pandas, NumPy, scikit-learn, matplotlib, seaborn

### [github.com/Faishal-Monir/Thesis-Management-System.git](https://github.com/Faishal-Monir/Thesis-Management-System.git) Thesis-Management-System

- This project r Thesis Management System is a digital platform that streamlines thesis submission, tracking, and supervision. It enhances communication, organization, and efficiency in managing academic research projects
- Tools Used: MongoDB, Express.js, React, Node.js, HTML, CSS

### [github.com/TahsinTanni/Disaster-Recovery-Training-DApp.git](https://github.com/TahsinTanni/Disaster-Recovery-Training-DApp.git) Disaster-Recovery-Training-DApp

- A decentralized application (DApp) built using Solidity, Truffle, and Node.js for simulating and managing disaster recovery training exercises on the Ethereum blockchain. This project demonstrates how blockchain can ensure transparency, security, and immutability in training records and recovery simulations.
- Tools Used: Truffle, Ganache, Metamask, Node.js, HTML, CSS

### [github.com/TahsinTanni/property-tracker-fabric.git](https://github.com/TahsinTanni/property-tracker-fabric.git) property-tracker-fabric

- This project develops a blockchain-based application for tracking property details securely using Hyperledger Fabric
- Tools Used: Wallet, Node.js, Hyperledger Fabric, Solidity, HTML, CSS

### [github.com/TahsinTanni/rush-n-dodge](https://github.com/TahsinTanni/rush-n-dodge)

**rush-n-dodge – GLproject**

- This project is a 2D driving simulator game developed in Python using the Pygame library. The game features a player-controlled car that must navigate through a road filled with obstacles and collect power-ups to earn points
- Tools Used: Python 3.x Pygame library OpenGL library

**github.com/TahsinTanni/Software-Course-Management-System**  
**Software-Course-Management-System**

- This project is a web-based platform for managing university courses, allowing administrators to create courses, assign instructors, enroll students, and track academic progress efficiently.
- Tools Used: HTML, CSS, Node.js, React, MongoDB

**github.com/TahsinTanni/MiniVSFS.git**  
**MiniVSFS**

- A lightweight educational implementation of a Virtual Simple File System (VSFS). This project demonstrates how file systems manage storage, inodes, directories, and files inside a simulated disk image.
- Tools Used: C

**github.com/TahsinTanni/Voting\_system\_interface**  
**Voting System Interface**

- This project is a simple and secure voting system that supports user authentication, candidate selection, and vote management.
- Tools Used: Assembly

**Experience**

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**Junior Executive, IT department**, Robotics Club Of Brac University, Dhaka, Bangladesh June 2022 – Aug 2023

- In this role, I was involved in maintaining and troubleshooting the club’s technical systems, supporting event setups and collaborating with team members on digital platforms.

**IT instructor**, Zentorra – Dhaka, Bangladesh August 2024– April 2025

- Delivered recorded classes on Python fundamentals and project-based learning for beginner-level students.

**Research Experience**

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**Undergraduate Researcher** January 2025 – Present

*BRAC University, Department of Computer Science and Engineering*

**Title:** Enhancing Robustness of Large Language Models Against Quantization Attacks through Weight Noise Injection

- Conducting research on the vulnerabilities of large language models (LLMs) in a quantized model

**Achievement**

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- Successfully completed an **Intermediate Web Development** course during the Residential Semester at BRAC University, gaining practical skills in designing responsive websites.
- Completed the **Intro to Machine Learning** course on Kaggle, gaining foundational knowledge in data science and machine learning with practical applications to real-world problems.
- Completed **AI Prompt Engineer™ (AI CERTs™)** via AgentX Bangladesh (Netcom Learning & Microsoft). Skills: advanced prompt design (zero / few shots, chain of thought), PFSET / PAIPS, IPS, XML steering, agent workflows, and ethical AI use.