

# Avani Tiwari

<https://ava-creates.github.io/>

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## EDUCATION

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- **New York University** Abu Dhabi, UAE  
*Bachelor of Science in Computer Science; GPA: 3.7* Aug. 2020 – May. 2024
- **Dr.Virendra Swarup Education Center** Kanpur, India  
*High School ICSE/ISC; Percentage: 97%* Aug. 2016 – May. 2020

## PROJECTS

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- **Anime face generator using Deep Learning:** Built a Generative Adversarial Network to generate faces using the images from a pre-existing dataset
- **FTP :** Built C programs using sockets for client and server performing FTP protocol with one teammate
- **StudyBuddy:** Constructed the frontend of the chatbox,to-do list,landing page,help page,and helped in integrating the backend with front end of the chat room
- **MNIST dataset classification using Artificial Neural Network:** Constructed a neural network from scratch to classify a handwritten number by training the model on MNIST dataset
- **Computation over outsourced data using Homomorphic encryption:** Used TFHE to encrypt the data and then perform string search over the encrypted data using the homomorphic XNOR and AND functions provided by the TFHE library
- **Skin Lesion Classification:** Built a model using keras to classify skin lesions in to 8 classes using the ISIC 2018 dataset in collaboration with Prof. Surya Prakash from IIT Indore

## EXPERIENCE

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- **CITIES Lab, NYUAD** Abu Dhabi, UAE  
*Data Collection Intern* Feb 2023 - May 2023
  - **Data collection:** Coordinated between the CITIES lab and the Traffic center in Abu Dhabi to collect data and upload it to the server
- **Office of Global Outreach** New York City, USA  
*Student Assistant* Sep 2022 - Dec 2022
  - **Organising Events:** Helped in ideation, promotion, and organisation of events to promote NYU Abu Dhabi as a study away site by coordinating with different NYU student interest groups
- **NYUAD Art Gallery** Abu Dhabi, UAE  
*Gallery Docent* November 2021 - May 2022
  - **Giving tours:** Gave tours of the current exhibitions to over 30 visitors
  - **Front desk duties:** Performed front desk tasks like taking phone calls and stocking up the shelves
- **Data Science and AI Lab, NYUAD** Abu Dhabi, UAE  
*Student Research Assistant* September 2021- November 2021
  - **web scraping:** Performed web-scraping to get the data required and wrote python script to parse thru the acquired data

## RELEVANT COURSEWORK

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- Applied Machine Learning
- Computer Security
- Applied Cryptography
- Programming for Data Science

## PROGRAMMING SKILLS

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- **Languages:** Python, C++, C, Java, Stata, HTML, JS, CSS