

# Harsh Panwar

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## Education

New Jersey Institute of Technology

2021-2025

**B.S. in Computer Science and Mathematical Sciences**

GPA: 4.0

Albert Dorman Honors College: Dorman Honors Scholar

Coursework: (NJIT) Probability and Statistics, Physics II, Data Structures and Algorithms, Calculus III, Discrete Mathematics; (High School) Differential Equations, Linear Algebra, Introductory Fourier Analysis

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## Projects

### Covid-19 Map

2020

- Filtered, extracted, and combined relevant data using 'Pandas' framework from 2 datasets on COVID cases and country locations with 100+ entries
- Mapped the data using 'Folium' package to create visual representation of COVID cases that accurately depicted the proportion of cases in a given geographic location

### Tumor Classifier

2020

- Classified tumors as malignant using the UCI Machine Learning Repository on breast cancer tumors
- Implemented a KNN algorithm using 'Pandas', 'NumPy', and 'sklearn' resulting in 98% accuracy

### BasketballPoints

2021

- Built a small web-scraper with the 'BeautifulSoup' library that summarized and outputted the career statistics of past/current NBA players that the user inputs

### Taiwan House Predictions

2020

- Predicted house prices using UCI Machine Learning Repository for dataset on house prices in Taiwan
- Cleaned data and created a linear regression model that predicted prices with 70% accuracy

### Digit Classifier

2020

- Created a 3-layer neural network to find the value of handwritten digits using data from MNIST
  - Worked with 'TensorFlow', 'NumPy', and 'matplotlib' to implement a 'relu' and 'softmax' functions
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## Extracurriculars

### Physics Informed Neural Network Research

2021-2022

- Participated in research with Dr. Afkhami to incorporate physics into a neural network model
- Worked with Slurm Workload Manager, Bash, and AFS to run model on NJIT computing clusters

### Programming Team

2021-present

- Practiced advanced technical interview and programming related concepts such as dynamic programming, sorting, hashing, etc.
- Prepared for future hackathons by further engaging in technical questions provided by the team

### High School Debate

2018-2021

- Excelled in Public Forum style debate on the Varsity Debate Team
  - 3x State qualifier with 5 total State bids
  - Coordinated logistics for BRHS Home Tournament with SpeechWire software
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## Volunteer Experience

### VerDay Inc.

- Founded non-profit with friends with an aim to promote environmental sustainability
  - Raised \$10,000 by selling biodegradable cutlery – all net proceeds were donated to Autism Speaks
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## Skills

Python (NumPy, Pandas, Pygame, TensorFlow, Matplotlib, Folium, BeautifulSoup), Java, MATLAB, Microsoft Office, AFS, Bash