

# Danishjeet Singh

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## EDUCATION

### INDIANA UNIVERSITY

#### Luddy School of Informatics, Computing, and Engineering

Bachelor of Science in Computer Science

Minor: Financial Literacy, Statistics

Specialization: Data Science, Artificial Intelligence

Honors: Hutton College, Luddy Academic Deans List

Bloomington, IN

May 2024

GPA: 3.82/4.00

## TECHNICAL & LANGUAGE SKILLS

**Programming Languages:** Python, Java, JavaScript, Scheme

**Markup Languages:** HTML, Sass, CSS, LaTeX

**Databases:** MongoDB, PostgreSQL, SQLite

**Frameworks:** React, Tailwind, Bootstrap

**Software:** Excel, Illustrator, InDesign, Adobe XD, Photoshop, Lightroom

**Languages:** English, Hindi, Punjabi

## EXPERIENCE

### IU Computer Vision Lab, Indiana University

*Research Assistant*

Bloomington, IN

May 2022 - Present

- Investigating Deep Learning based techniques like CNN's and GAN's for object and image recognition.
- Utilizing various dimensionality reduction techniques to understand the relationship between the size of training datasets and the performance of classifiers through various visualizations.
- Creating GAN's and applying a Variational Auto-encoder using a Class-to-Class approach to further improve the creativity of the generated samples.

### Luddy Student Engagement, Indiana University

*Lead Technical Consultant*

Bloomington, IN

October 2021 - May 2022

- Created and managed the Luddy Living Learning Center(LLC) website by implementing User Testing and actively evaluating feedback to improve the User Experience, while using The WCMS Expression Engine.
- Developed content for the website in collaboration with the Director of Student Engagement to highlight the core objectives of the LLC to increase the user traffic by 150%.

## ACTIVITIES

### Luddy School of Informatics, Computing, and Engineering

*Luddy Student Ambassador*

Bloomington, IN

January 2022 - Present

- Coordinate with the Luddy School's Office of Undergraduate Recruitment towards the creation and promotion of a recruitment strategy for prospective high school students.

### Google Developer Student Club, Indiana University

*Digital Designer/ Core Team Member*

Bloomington, IN

September 2021 - Present

- Increase the club's engagement by 75% through the campus wide marketing campaign by employing Google's branding and marketing guide.

## PROJECTS

### GAN for MNIST Dataset

July 2022 - August 2022

- Prepared and split the MNIST dataset of 60000+ images into training, validation and testing sets.
- Initialized and trained the Generator and Discriminator CNN's to generate and classify generated image results as real or fake.
- Achieved a accuracy of 85% while deploying the Generative Adversarial Network.

### Geodata Visualization Project

February 2022 - March 2022

- Utilized Google Places API to find the geodata of 200 locations around the globe using Python.
- Constructed a SQLite Database from the geodata acquired from the Google Places API.
- Converted the geodata JSON present in the Database into a JS file to visualize relevant data onto an interactive map.