# Danishjeet Singh

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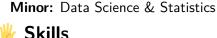


### Indiana University, Bloomington

Bloomington, IN

 $\it B.S.$  in Computer Science  $\mid$  3.62 GPA

May 2024



Python (Pandas, NumPy, scikit-learn, matplotlib, PyTorch), SQL(Postgres, MongoDB), JavaScript(React) R, Java, HTML, CSS(Tailwind, Bootstrap) Latex, Git/Terminal, Linux



### Experience

### Observatory on Social Media, Indiana University

Bloomington, IN

Research Assistant

January 2023 - Present

- Revamped Twitter API data pipeline, achieving a 99% increase in download speed through expert implementation of multiprocessing and asynchronous calling in Python.
- Built swift and efficient algorithms using computer vision to detect AI generated faces on the Twitter platform with 90% accuracy.
- Managed a team of 5 graduate students in developing a deep learning-based approach utilizing advanced architectures like Mask R-CNN to identify GAN generated human faces, showcasing strong leadership and mentoring skills

### **IU Computer Vision Lab, Indiana University**

Bloomington, IN

Research Assistant

May 2022 - January 2023

- Conducted research on the application of Deep Learning techniques, including Convolutional Neural Networks(CNN's) and Generative Adversarial Networks(GAN's), for object and image recognition.
- Applying various dimensionality reduction techniques to analyze the relationship between the size of training datasets and the performance of classifiers, using visualizations to facilitate understanding.

# Projects

#### **Generative Adversarial Network Classifier**

- Proficiently built and trained a deep learning model that produced a large number of novel and visually appealing images from the MNIST dataset.
- Developed a robust classifier model capable of accurately identifying generated and authentic images, achieving a high accuracy rate of 93%

#### Bankist App

- Conceptualized and formulated the idea, digital assets and product cycle of a simulated banking app.
- Established a marketing website along with a prototype of the banking app using JavaScript to generate advertisement and user activity and gained over 200+ visits.

# Activities

#### Google Developer Student Clubs

Bloomington, IN

Technical Lead

Sep 2021-Present

- Delivered engaging machine learning lectures, covering SVM, CNN, and other architectures, and created hands-on image classification projects with PyTorch, showcasing strong communication, pedagogical, and technical skills
- Introduced advanced topics like style transfer and GANs, providing students with exposure to cutting-edge techniques, demonstrating a deep understanding of modern machine learning advancements.