

# SNEHA SUNDAR

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## Education

**University of Illinois Urbana-Champaign**

*Bachelor of Science in Statistics & Computer Science*

**May 2026**

*Champaign, IL*

## Experience

**STAT/CS/IS 107: Data Science Discovery**

**Jan 2024 – Present**

*Course Assistant*

*Champaign, IL*

- Helped manage hands-on lab sessions where students practiced data manipulation and analysis using pandas, reinforcing their understanding of data cleaning and transformation techniques
- Guided students in creating data visualizations with matplotlib, helping them develop skills in presenting data insights effectively through various plots and charts.
- Provided support during office hours on scikit-learn for machine learning, teaching students basic concepts in machine learning such as clustering and classification to give them an overview of the field.

**Arrcus, Inc**

**Jun 2024 – Aug 2024**

*Software Engineer Intern*

*San Jose, CA*

- Developed a script to analyze and categorize network device log errors by protocol using pexpect, incorporating the threading library to implement multi-threading for enhanced performance.
- Automated the generation of tailored email reports for effective communication with the Customer Solutions Engineering Team using postfix.
- Identified and tracked error trends to create a dataset for training deep learning algorithms, enabling advanced data analysis of device performance using the regex library.

## Projects

**FaceCraft: A Face Generator** | *Pytorch*

**June 2024**

- Developed a Generative Adversarial Network (GAN) using PyTorch to generate realistic facial images, training on the CelebA dataset to enhance model accuracy and performance.
- Utilized Matplotlib to visualize generated faces and model training progress, enabling effective evaluation and presentation of the GAN's output quality.

**PickMe: Restaurant Recommender** | *React.js, Flask, Matplotlib, scikit-learn*

**April 2024**

- Engineered a full-stack web application using React.js and Flask, incorporating KMeans clustering to identify top-rate restaurant based on user preferences and integrated it with the Geolocate and Google Places APIs.
- Leveraged TypeScript and MongoDB for robust data management and storage and implemented Google OAuth for secure user authentication.

**Web Page & Text Summarizer** | *Flask, Nltk*

**March 2024**

- Created a Flask-based web application employing BeautifulSoup and requests libraries to scrape web pages and extract text for summarization, integrating natural language processing techniques such as tokenization and frequency analysis.
- Designed an intuitive UI to input URLs or text, streamlining the summarization process and enhancing accessibility for a seamless user experience.

**World Happiness Report Data Visualization** | *R*

**Feb 2024**

- Developed insightful data visualizations using R to illustrate key trends and regional disparities from the World Happiness Report.
- Employed R packages such as ggplot2 to create static visualizations, effectively communicating happiness metrics across various countries.

## Coursework

- |                           |                            |                          |                                    |
|---------------------------|----------------------------|--------------------------|------------------------------------|
| • Data Structures         | • Statistics & Probability | • Discrete Structures    | • Programming Methodologies in C++ |
| • Artificial Intelligence | • Statistical Modeling     | • Computer Systems       | • Software Design Lab              |
| • Database Systems        |                            | • Data Science Discovery |                                    |

## Technical Skills

**Languages:** Python, R, Java, C/C++, HTML/CSS, JavaScript, TypeScript

**Developer Tools:** GitHub, VS Code, Eclipse, Google Colab, PyCharm

**Technologies/Frameworks:** Pandas, Pytorch, Django, Flask, React.js, Keras, Tensorflow, NumPy, Matplotlib