Sneha Sundar

https://snehasund.github.io/ snehas9@illinois.edu
https://www.linkedin.com/in/sneha-sundar26 https://github.com/snehasund

Education

University of Illinois Urbana-Chamapign **May 2026**
Bachelor of Science in Statistics & Computer Science *Champaign, IL*

Experience

Arrcus, Inc **Summer 2024**
Software Engineer Intern *San Jose, CA*

- Worked on the customer solutions engineering team to automate customer processes, focusing on streamlining the implementation of networking protocols on proprietary hardware.
- Utilized pexpect and paramiko for automating SSH connections, parsing error messages, and implemented multi-threading to efficiently gather information from numerous devices.

Course Assistant for Data Science Discovery **Jan 2024 – Present**
University of Illinois Urbana-Champaign *Champaign, IL*

- Fostered interactive learning environments during lab sessions by encouraging student participation and providing hands-on guidance to enhance comprehension of course material.
- Offered support during regular office hours, addressed individual questions, clarified concepts, and provided additional resources to aid students in their academic progress.

Research Intern at iPRoBe Lab **Summer 2022**
Michigan State Univeristy *Remote*

- Worked with Dr. Arun Ross to develop an emotion-recognition algorithm using PyTorch, conducting comprehensive data analysis to evaluate its precision and accuracy relative to established models.
- Analyzed the model outcomes and results to assess its accuracy compared to existing benchmarks, contributing to ongoing research in emotion recognition algorithms.

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 evalutaion and presentation of the GAN's output quality.

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 user interface enabling users to input URLs or text, streamlining the summarization process and enhancing accessibility for a seamless user experience.

Coursework

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

Technical Skills

Languages: Python, R, Java, C/C++, HTML/CSS, JavaScript, TypeScript
Developer Tools: VS Code, Eclipse, Google Colab, PyCharm
Technologies/Frameworks: React.js, Pandas, Pytorch, Django, Flask, GitHub, Keras, Tensorflow, NumPy, Matplotlib