





SNEHA SUNDAR

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Education

University of Illinois Urbana-Champaign

Bachelor of Science in Statistics & Computer Science

May 2026

Champaign, IL

Experience

Arrcus, Inc

Software Engineer Intern

Summer 2024

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 Python libraries such as pexpect and paramiko for automating SSH connections, parsing error messages, and implemented multi-threading to efficiently gather device information from numerous devices using JSON files.

Course Assistant for Data Science Discovery

University of Illinois Urbana-Champaign

Jan 2024 – Present

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

Michigan State University

Summer 2022

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 evaluation 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

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|---------------------------|----------------------------|--------------------------|------------------------------------|
| • 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: VS Code, Eclipse, Google Colab, PyCharm

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