





SNEHA SUNDAR

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Education

University of Illinois Urbana-Champaign

Bachelor of Science in Statistics & Computer Science

May 2026

Champaign, IL

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

Experience

Arrcus, Inc

Software Engineer Intern

Summer 2024

San Jose, CA

- Utilized Python libraries such as pexpect and paramiko to automate SSH connections to devices, parse error messages.
- Implemented multi-threading for efficient parsing of JSON files to collect device information for 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 University

Remote

- Worked with Dr. Arun Ross to develop an emotion-recognition algorithm using PyTorch.
- Conducted data analysis on model outcomes to evaluate its precision in relation to established models.
- Performed data analysis on results of the model to test its accuracy compared to existing models.

Projects

FaceCraft: A Face Generator | *Pytorch, GAN*

March 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*

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.

World Happiness Visualization | *Rstudio*

February 2024

- Conducted data cleaning and preparation for the World Happiness Report dataset using R, ensuring accuracy and consistency for subsequent analysis.
- Visualized happiness scores and regional distributions with bar charts and density curves using ggplot2 in RStudio, effectively communicating key insights through clear and informative visualizations.

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