Sneha Sundar

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Education

University of Illinois Urbana-Champaign **May 2026**
Bachelor of Science in Computer Science & Statistics *GPA: 3.74*

Experience

Language Interaction Lab @ UIUC **Sep 2024 – Present**
Undergraduate Researcher *Champaign, IL*

- Used Semantic Scholar to extract relevant information from various pieces of academic literature for the purposes of evaluating certainty.

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 evalutaion and presentation of the GAN's output quality.

Long Texts Summarizer| *Python, Nltk* **May 2024**

- Developed a Flask web application that employs natural language processing (NLP) to summarize text from user-provided URLs and input, utilizing NLTK for tokenization and stopword removal.
- Implemented a summarization algorithm with BeautifulSoup for dynamic web scraping, extracting and condensing key sentences to enhance information clarity.

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.

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
- 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

Tools: GitHub, VS Code, Eclipse, Google Colab, PyCharm, Pandas, Pytorch, Django, Flask, React.js, Keras, Tensorflow, NumPy, Matplotlib