SNEHA SUNDAR

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Education

University of Illinois Urbana-Champaign — **May 2026**
Bachelor of Science in Computer Science & Statistics — *GPA: 3.75*

Experience

Language Interaction Lab @ UIUC — **Sep 2024 – Present**
Undergraduate Researcher — *Champaign, IL*
- Conducted research on the certainty levels expressed in academic citations, analyzing sentence and aspect-level certainty to quantify the confidence of researchers in their cited sources.
- Utilized natural language processing techniques to fine-tune a model that assigns certainty scores to research papers, enabling comparative analysis across different fields.

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 in C++
- Software Design Lab
- Numerical Methods

Technical Skills

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

Tools: Tensorflow, Keras, Pytorch, Pandas, Flask, Django, NumPy, Matplotlib, Neo4j, MongoDB, React.js, Google Colab, Git, GitHub, PyCharm, VS Code, Eclipse