

Shreya Sudhanva

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EDUCATION

Northeastern University, Boston, MA

Expected May 2024

Khoury College of Computer Sciences

M.S in Computer Science

Related Courses: Natural Language Processing, Programming Design Paradigm, Foundations of AI, Algorithms and Introduction to Data Management and Processing, Foundations in Software Engineering

TECHNICAL SKILLS

Languages: C, C++, Python, R, Java, JavaScript
Tools: MySQL, LaTeX, Git, IntelliJ
Frameworks: NLTK, Keras, Tensorflow, NumPy, Pandas, Scikit-Learn, SciPy

WORK EXPERIENCE

Takeda Pharmaceuticals, Boston, Massachusetts, USA

July 2023 - September 2023

Digital Product Analyst Intern

- Analyzed, architected and designed solutions for 11 generative AI use cases for the field of plasma derived therapy in the data digital and technology team.
- Worked on a large dataset to analyze natural language processing and generative AI project trends in various pharmaceutical companies.

Toshiba Software India Pvt Ltd, Bengaluru, India

February 2022 - July 2022

Software Engineering Intern

- Architected a software for CT Systems operating MFC to create multiple versions of installer software to support different low-resolution systems and optimize runtime by more than 45%.
- Liaised with a team from Japan to deploy the software in hospitals in Japan and Australia making use of C and C#.

Reap Benefit, Bengaluru, India

July 2021 - February 2022

Software Engineering Intern

- Designed and developed Chatbot allowing people to communicate and obtain information regarding the organization.
- Developed a library to translate chatbot and forms from English to regional languages using JSON. Handled dynamic data and performed various analyses to optimize engagement and outreach.

Mysuru Consulting Group, Mysuru, India

July 2020 - December 2020

Machine Learning Intern

- Devised a project for the identification of objects in a hotel on Python deploying CNN improving the confidence by 30%.
- Spearheaded on generation of over 200 JSON files for test cases as required by a client of Mysuru Consulting Group.

PROJECTS

- Stocks:** Architected an application leveraging MVC and Bridge design patterns to mimic the behaviors of the stock market including features such as buying, selling and performing dollar-cost averaging.
- Depression Detection:** Performed a comparative study on different Neural Network models such as CNN and LSTM for detection of depression leveraging reddit posts. LSTM model reached accuracy of 90.7%.
- Speaker Diarization:** Led a team to devise a speaker diarization system to be able to distinguish between speakers in an audio file. Operated packages such as Librosa, NumPy and Tensorflow. Lowest DER of 9.9% was achieved.
- Employee Database System:** Built the back end of an application storing employee information on MySQL; created triggers leveraging complex joins; features include addition, deletion and editing of employee information as well as calculation of salary based on the pay grade.
- Research:** NAÏVE BAYES CLASSIFIER FOR DEPRESSION DETECTION USING TEXT DATA - ICEECCOT 2021, Mysuru, India. ISBN: 978-1-6654-3272.

LEADERSHIP EXPERIENCE

- Teaching Assistant (Fall '22 & Spring '23), NEU Boston
- Secretary, Linux Campus Club, JSS&STU, Mysuru, India.
- Placement Secretary, JSS&STU, Mysuru, India.