Tharangini Sankarnarayanan

+1-201-238-7819 · ts4180@nyu.edu · LinkedIn · GitHub · https://tharangini.github.io/

EDUCATION

• New York University

New York, NY

Master of Science in Data Science; GPA: 3.78

Aug. 2021 - Exp. Graduation May 2023

• SASTRA University

Thanjavur, India

Bachelor of Technology in Computer Science and Engineering; GPA: 8.19/10.0

July. 2015 - July. 2019

o Bachelor's Thesis in Deep Learning Title: Realistic Face Rendering for 3D Mixed Reality Experience, GPA: 9.5/10.0, Universitat Politècnica de Catalunya, Spain

SKILLS

• Programming Languages: Advanced: Python, SQL; Intermediate: Java; Basic: C, C++

• Tools: PyTorch, Scikit-learn, NumPy, Matplotlib, Git, Spark, Hive

EXPERIENCE

• New York University

New York, NY

Teaching Assistant, Introduction to Machine Learning

Jan 2022 - Present

 Course Formulation: Formulated input into the development of assignments and course materials. Instructing lab sessions for the class in Fall 2022

• Marron Institute of Urban Management

New York, NY

Research Fellow

May 2022 - Aug 2022

- o **Product Design:** Designed a tool to connect employers committed to hiring people with criminal records with qualified applicants who are releasing from the Illinois Department of Corrections, collaborating with a group of 10 end users to create features across the software using Python, Flask, and CSS
- Presented the tool to incarcerators at Kewanee Life Skills Re-entry Center and the Director of Illinois Department of Corrections.

 Tool will be launched in August 2023

• Mu Sigma Decision Sciences

Bangalore, India

Trainee Decision Scientist

Oct 2019 - Mar 2020

- Formulated Exploratory Data Analysis on active users' trends of Microsoft Teams based on data of prior 6 months using Python
 to extract practical insights
- Communicated and presented actionable insights about product feature analysis to stakeholders across cross-functional teams of the client, product owners and marketers to introduce updates.

• ZoomRx Healthcare Solutions

Chennai, India

Associate Research Intern

May 2018 - Jul 2018

- Data Collection Retrieved data of 1 million clinical trials from title and description of the trials by web scraping and part-of-speech tagging to create a SQL database to build a bot
- o Matched 1500 acronyms (short-form) with their expansion (long-form) in clinical trials and drug usage data
- Built recommendations for AI bot to answer questions raised by customers using Python about medical treatments and fetch data based on intent. Reduced response time by 40%

PROJECTS

- Training AI to recognize distances, objects, and requests of interest to the blind community Research an object detection model to recognize items relevant to persons with blindness in their day-to-day living. Training involves two different families of object detection models YOLO and DeepLab. Final output uses existing baseline methods for Image Captioning for conveying the object through audio.
- Risk Prediction Models for Diabetes Using Diabetes Health Indicators Developed 4 hypotheses based on the parameters involved and perform statistical modelling. Conducted a literature survey to build a network to assess risk factors to predict the risk of diabetes and make accurate predictions of whether an individual has diabetes
- Realistic Face Rendering for 3D Mixed Reality Experience Conceptualized a deep learning pipeline for time-series analysis of video communication data to perform an in-depth research project. Devised a bounding box to detect the Virtual Reality headsets in the video captures and creates a realistic model of the user's face and use it to replace the part covered by the headset, enabling mixed reality experience. The accuracy of the prototype was 79%.

ACTIVITIES

- Graduate Student Community Building Group Executive Board Member, New York University
- Women in Data Science Executive Board Member and Events Director, New York University
- Judge Advisor, Technovation Girls, Technovation