Srinarayan Srikanthan

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OBJECTIVE

Passionate student pursuing Masters in Computer Science, seeking for a full-time job that utilizes my Artificial Intelligence and data analytical skill to help create innovative solutions.

EDUCATION

WORCESTER POLYTECHNIC INSTITUTE (WPI) — Worcester, MA
Master of Computer Science (GPA: 4/4 currently) — Aug 2019 - May 2021
Focused on application of Artificial Intelligence to real world solutions

RAJALAKSHMI ENGINEERING COLLEGE (REC), CHENNAI — Chennai, India
Bachelor of Engineering in Computer Science (GPA: 8.3/10) — Aug 2015 - May 2019
Represented the University in Table Tennis, won division and zonal championships

PROFESSIONAL EXPERIENCE

ZOHO CORPORATION — Chennai, India
Member Technical Staff — December 2018 - May 2019
- Worked with team Site24X7, a web monitoring suite.
- Was responsible for adding the functionalities to the existing application.
- Design and test the new screens for the added functionalities.
- Interact with other teams within Site24X7 to know their requirement and modify the existing screens.

STABILITY HEALTH — Worcester, Ma
Graduate Qualifying project funded by WPI Data Science Department with Stability Health — January 2020 - May 2020
- Collaborate on a team of four to assist Stability Health with improving diabetes care management.
- Utilize machine learning to stratify user risk levels with 82% accuracy to assist diabetes coaches with users' self-management.
- Analyze data to make recommendations to senior leadership on ways to better improve business operations.
- Develop data visualization dashboards to improve and expedite decision-making for Stability Health.

WORCESTER POLYTECHNIC INSTITUTE — Worcester, Ma
Research Assistant — May 2020 - Present
- DARPA funded project to analyse spread of infectious disease and predict them in advance based on mobile sensor data.
- Capture variation in smartphone usage patterns to analyse the presence and progression of TBI.
- Collaborate in a team of three to develop models to analyze user data and predict symptoms of infectious disease and TBI among soldiers.

PROJECTS

SMARTPHONE-BASED EARLY AILMENT SENSING USING COUPLED LSTM AUTOENCODERS — MAY 2020 - AUG 2020
- DeepSEAS predicts the presence of any symptoms of Influenza during the incubation period.
- The accuracy of DeepSEAS is 78% with 24 hour history of user's mobile sensor data.
- We cluster users on their behavious and use a Coupled LSTM Autoencoders and a neural network to accomplish the task.
- The journal publication for this project is in process.

IMAGE INFERENCE AND GENERATION FROM DOODLES — AUG 2019 - DEC 2019
- Classification of hand drawn images and recreating these images using Generative methods.
- Implemented the classification module on hand drawn images using CNN to extract features and feed it to Gradient Boosting Machine to perform classification.
- Use the predicted classification label as input to train Generative Adversarial Network and generate real images of the doodle.

DEPRESSION DETECTION USING EEG SENSORS — OCTOBER 2017 - FEBRUARY 2018
- Classification of mind waves using EEG sensors and identifying depression disorders.
- Develop a headphone embedded with EEG sensor to continuously monitor user data.
- Won the best project award among 900 projects and a cash award of 50,000 INR.

BAYMAX- AN EXPERT SYSTEM FOR PERSONALIZED HEALTHCARE ASSISTANT — JUNE 2018 - JAN 2019
- A personalized healthcare assistant which monitors user data and assists doctors by providing a dashboard to view health related data.
- The system was trained to users voice which triggers to sounds of pain.
- Published at International Conference on Computer,Communication and Signal Processing.

CONTENT BASED VIDEO DESCRIPTION AND RETRIEVAL SYSTEM DEC 2019 - MAY 2020

•A video summarising and captioning system for text based queries.
•The system has three sub modules:1)Key frame extraction. 2)Description of key frames. 3)Summarizing the generated content which can be used for querying by the information retrieval module

OTHER PROJECTS

- Stud-e-book: An eBook reader using gesture recognition
- Text mining on movie reviews from Kaggle
- Develop Neural Network with arbitary depth, RNN's and other algorithms without any external packages
- A survey paper on Watermarking techniques

SKILLS

- **Programming:** Java, Python, C, C++, SQL, HTML, CSS, JavaScript,
- **Technical:** Tableau, Keras, TensorFlow, GIT, Struts, Spring, Android Studio
- **Languages:** English, Hindi, Tamil