Srinarayan Srikanthan

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•https://srinarayansrikanthan.github.io/Portfolio/

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-Thesis (GPA: 4/4 currently) Aug 2019 - May 2021

RAJALAKSHMI ENGINEERING COLLEGE (REC), CHENNAI Chennai, India
Bachelor of Engineering in Computer Science (GPA: 8.3/10) Aug 2015 - May 2019

PROFESSIONAL EXPERIENCE

WORCESTER POLYTECHNIC INSTITUTE Worcester, Ma
Research Assistant May 2020 - Present
• DARPA funded project to analyse spread of infectious disease and predict the symptoms in advance based on passively monitored mobile sensor data.
• Capture variation in smartphone usage patterns to analyse the presence and progression of TBI in soldiers.

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

ZOHO CORPORATION Chennai, India
Member Technical Staff December 2018 - May 2019
• Worked with team Site24X7, a web monitoring suite and was responsible for adding functionalities to the existing application.
• Within the team, worked in website monitoring group, which measures a sites performance and minimize downtime. Was responsible for modifying the front-end screens to accommodate the added functionalities.

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 with an accuracy of 78%.
• We cluster users on their behavious and use a Coupled LSTM Autoencoders and a neural network to accomplish the task of classification using passively sensedmobile sensor data and user survey responses.

IMAGE INFERENCE AND GENERATION FROM DOODLES AUG 2019 - DEC 2019
• Classification of hand drawn images and recreating these images using Generative methods.
• CNN is used to extract features from hand drawn images and Gradient Boosting Machine to perform classification. This target is used to 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 prototype for headphones embedded with EEG sensor to continuously monitor user data passively.

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 AND SKILLS

- Baymax- An expert system for personalized healthcare assistant
- Masters thesis on TBI detection and analysis of its progression.
- A survey paper on digital Watermarking techniques.
- Stud-e-book: An eBook reader with gesture recognition
- Bioscore - A concept of user health index .
- Text mining on movie reviews from Kaggle.
- Programming: Java, Python, C, C++, SQL, HTML, CSS, JavaScript
- Technical: Tableau, Keras, TensorFlow, Struts, Android Studio, AngularJS, MySQL