Srinarayan Srikanthan

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EDUCATION

WORCESTER POLYTECHNIC INSTIUE
Masters in Computer Science
Expected Graduation May 2021
Cumulative GPA: 4.0

RAJALAKSHMI ENGINEERING COLLEGE
Bachelor of Engineering in Computer Science
Graduation May 2019
Cumulative GPA: 8.3

AWARDS

BEST PROJECT
Depression detection using EEG sensors| Oct 2017 - Feb 2018
Develop a prototype for headphones embedded with EEG sensor to continuously monitor user data passively and Classification of mind waves to identify depression disorders.

OTHER WORKS

Baymax | An expert system for personalized healthcare assistant.
Stud-e-book | An eBook reader with gesture recognition.
A survey paper on digital Watermarking techniques| Published in International Journal of Pure and Applied Mathematics (Scopus Indexed).
Smart Transportation system|Presented in 2nd International Conference on Communication and Electronics Systems (ICCES), Published in IEEEXplore.
Bioscore | A concept of user health index for specific ailments.

SKILLS

PROGRAMMING
Java • Python • C • C++•
JavaScript • SQL • HTML • CSS
Familiar:
Android Studio • AngularJS • Android • Tableau • Struts • Weka

EXPERIENCE

WORCESTER POLYTECHNIC INSTITUTE | Research Assistant
May 2020 - Present | Worcester, MA
- DARPA funded project to analyse spread of infectious disease and predict the symptoms in advance based on passively monitored mobile sensor data using AI/ML techniques.
- Identify users with TBI using Deep Embedded Clustering on user device usage patterns and then performing Anomaly Detection.

STABILITY HEALTH | Student researcher funded by WPI
January 2020 - May 2020| Worcester, MA
- Utilize Semi-supervised modelling using Deep Neural network to stratify user risk levels with 82% accuracy to assist diabetes coaches with user management.
- Develop data visualization dashboards to improve and expedite decision-making for Stability Health and make recommendations using AI/ML to senior leadership on ways to better improve business operations.

ZOHO CORPORATION | Member Technical Staff
December 2018 - May 2019 | Chennai, TN
- Worked with team Site24X7, a web monitoring suite and was responsible for adding functionalities to the existing application.
- The application is a Website monitoring suite , which measures a sites performance provides insights on the vulnerabilities to minimize downtime.

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 behaviours and use a Coupled LSTM Autoencoders and a neural network to accomplish the task of classification using passively sensed mobile sensor data and user survey responses.
- Published in2020 IEEE International Conference on Big Data

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.

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.