Sharan Sundar

ML Engineer/ Research Assistant

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EXPERIENCE

Under Graduate Research Assistant
Solarillion Foundation
06/2017 – Present *Chennai*

- Developed and deployed a Machine Learning model in real-time for predicting the occupancy of a movie using its booking history in collaboration with one of the top three multiplex chains in India.
- Developed a Generic Deep Framework for Cross-Domain Univariate and Multivariate Time Series Forecast including S&P500 stocks.

PUBLICATIONS

Convolutional Long Short-Term Memory Neural Networks for Hierarchical Species
Conference and Labs of the Evaluation Forum (CLEF 2018) • Avignon, France — Sep,2018

DeepTrace: Generic Deep Framework for Cross-Domain Univariate and Multivariate Time Series Forecast (Under Review)
Association for the Advancement of Artificial Intelligence (AAAI-19) • Hawaii, USA — Feb,2019

A Machine-Learning approach to Occupancy Forecasting using Feature Tuning (Under Review)
SIAM International Conference on Data Mining (SDM19) • Alberta, Canada — May,2019

EDUCATION

Computer Science Engineering
Anna University (SSN College of Engineering)
05/2015 – Present *7.9*

Higher Secondary Education-CBSE
Chettinad Vidyashram, Chennai
06/2000 – 04/2015 *94.80%*

EVENTS

Smart India Hackathon 2018(ISRO), Gujarat
Finalists

Smart City Hackathon 2017, Rajkot
Finalists

Ideathon(Paytm) 2016, Delhi
Top 100 in India

NOTABLE PROJECTS

Road_not_taken
Pytorch, Kivy, Pyshp
An application that reads road networks as shapefiles and generates the minimum spanning tree using conventional and agent- based (Reinforcement Learning) algorithms.
Datasets: Google Earth, ISRO's Geoportal

Occupancy_Prediction
Keras, Pandas
Branched-LSTM Deep models and ExtraTrees models with engineered and tuned features to predict occupancy per screen per show for a popular multiplex in real time.
Dataset: Booking data (Transactional) (2013-2017)

ML for Speed Control of DC Motor
Arduino, 12V DC Motor, IR Sensor
Developed a polynomial regression algorithm to stabilize the error between the user and sense speed under no load and loaded conditions for a 12 V DC motor.

CURRENT WORK

Abstractive Text Summarization | Short Answer Evaluator | CLEF2019

ORGANISATIONS

Association of Computer Engineers(ACE),SSN
President *2018 – Present*

- Responsible for the activities of the Department of Computer Science Engineering.
- Member of the core behind SSN's Technical Fest - Invente3.0

Teach-A-School
Teacher Volunteer *10/2016-04/2017*

Delivered Basic Math and Science concepts middle school children (6th Grade, Lady Sivaswami Iyer Girls School).

SKILLS

Advanced: Python, Deep Learning
Intermediate: C, C++, Java, Linux
Beginner: HTML/CSS, Android Studio
Tools & Frameworks:
Arduino, Git, Tensorflow, Scikit-learn, Kibana