SHARAN SUNDAR

ML ENGINEER/RESEARCH ASSISTANT

Chennai,India
+91-9445386095

EXPERIENCE

Undergrad Research Assistant

Solarillion Foundation | 6/2017-Present

- 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 Prediction

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

B.E-Computer Science Engineering

Anna University(SSN) | 05/2015-Present | 7.9

CBSE-Higher Secondary Education

Chettinad Vidyashram | 06/2000-04/2015 | 94.8%

SKILLS

Advanced: Python, Deep Learning
Intermediate: C, C++, Java, Linux
Beginner: HTML/CSS, Android Studio

Tools & Frameworks:
Arduino, Git, Tensorflow, Scikit-learn, Kibana

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.
Datasets: 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.

ORGANISATIONS/POSITIONS

Association of Computer Engineers (ACE),SSN

President | 08/2018 - Present

• Responsible for the activities of the Department of Computer Science Engineering.
• Member of the core behind SSN's Technical Fest - Invente3.0 (September 21-22,2018).

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).

CURRENT WORK

Abstractive Text Summarization | Short Answer Evaluator | CLEF2019