



# 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.

**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.

## 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