

# 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

