

# SIDDHARTH DIVI

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Interested in Machine Learning and Data Science, with experience working with Python , R and frameworks like Keras and Tensorflow, and ELK stack for Exploratory Data Analysis.

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## Work Experience

**Feb. 2017**      **Undergraduate Research Assistant** : Solarillion Foundation  
**- present**  
**March 2018**      **Undergraduate Teaching Assistant** : Solarillion Foundation  
**- present**

## Education

**2015-2019**      **B.E. Computer Science** : SSN College of Engineering  
**(expected)**      **CGPA** : 8.85

**2014-2015**      **AISSCE** : Kendriya Vidyalaya Anna Nagar  
                         **Board Marks** : 481/500

**2013-2014**      **AISCE** : Kendriya Vidyalaya Anna Nagar  
                         **GPA** : 10

## Skills

Python ,Keras, Tensorflow	Django	C / C++ / Java
R / Octave	Shell Programming	Machine Learning (intermediate)
Data Analytics (intermediate)	ELK Stack	Oracle SQL/MySQL
HTML/CSS/Javascript	PHP/JSP	OpenGL

## Technical Experience

**Research Ex-perience**

- 1. Forecasting Complex Time-Sequenced Sales using Artificial Neural Networks**  
This work comprises of online learning and feature engineering by data correlative analysis in conjecture with densely connected Neural Network to address the concept drifts and latent time correlations present in the data respectively, to make day-ahead prediction of food sales for one of the top multiplexes in India. It has been submitted to MIT - URTC 2018.
- 2. Location Based Species Recommender System.**  
Prediction of top k species in a location based on the environmental features given in the form of tiff images. Done as part of GeoCLEF part of CLEF 2018 at Avignon, France. The work has been selected as working notes to be published in LNCS, part of Springer Journal.

### 3. Microsoft Summer Research Workshop 2018

As part of the MSR Summer Workshop 2018 on 'Machine Learning on Constrained Devices', worked on extending two algorithms Bonsai and ProtoNN for regression. Part of the team that jointly won the MSR research grant. [Link](#)

## Projects

### 1. Student Behavioural Modelling System. (ongoing)

Acquisition of various kinds of data related to the students of a college, to analyze their performance over time, from their freshman year onwards, and also to understand the influence of various factors on their academic and overall performance. [Link](#)

### 2. Breast Cancer Detection System.

An artificial medical diagnostic system, which aims to supplement / complement doctor's diagnosis, by giving a prediction based on the results of the tests conducted on the patients. This project was undertaken as part of the course "Object Oriented Analysis and Design", using Python + Scikit + Pandas + Django. [Link](#)

### 3. DC Motor Closed Loop Speed Control System.

A closed loop speed control system built for a DC Motor using a P controller, in Arduino, with inbuilt PID Library, with the justification of the constants used as well, coupled with a report. [Link](#)

## Human Languages:

English

Telugu

Tamil

Hindi

German (B1-Level)

## Volunteering / Community Service:

- Academic Support Volunteer, ASV, **MAD(Make a Difference)** Chennai 2017 - Present.
- Member of Admissions Committee, **Solarillion Foundation**, Chennai, 2018 - Present.
- Member of Selection Panel, **MAD** Chennai, 2018 - Present.
- Part of **Helios City CSR** relief operations, conducted post the devastating Chennai floods of December 2015.
- Part of **Helios City CSR**, that cleared the debris off an entire stretch of road, post the December 2016 Cyclone, Vardah.

## Hobbies / Interests:

- Playing Tennis, Table Tennis, Badminton, cycling and yoga.
- Reading fiction / non-fiction books.
- Participating in community events.
- Debating / Public Speaking.

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[LinkedIn Profile](#)

[Github](#)