# SRAVAN SINGAM | CE15B056 |
# INDIAN INSTITUTE OF TECHNOLOGY MADRAS

## EDUCATIONAL QUALIFICATIONS

| Program | Institution | Year of completion | CGPA/% |
|---|---|---|---|
| B.Tech Civil Engineering | Indian Institute of Technology Madras | 2019 | 6.83/10 |
| XII, BIE, Telangana | Board of Intermediate Education(Telangana) | 2015 | 95.1% |
| X, SSC Board, Telangana | Board of Secondary Education(Telangana) | 2012 | 9.7/10 |

## SCHOLASTIC ACHIEVEMENTS

- Stood in top 3.2 percentile in All India JEE Advanced(AIR 6442) among **2,00,000** Qualifiers from Jee Mains.
- Stood in top 0.8 percentile in TS EAMCET a State Level Engineering Exam conducted amongst **2.3lakh** Aspirants
- Secured State 200 Rank and District 2nd in Unified Council State Level Talent Search Exam amongst 10,000 participants
- Participated in Inspire Science Fair conducted by Ministry of Science and Technology and was selected for State Level Exhibition in top 45 participants amongst 550

## PROFESSIONAL EXPERIENCE

### ICICI AML and Fraud Analytics Manager(Full Time) *July'19*

- Manager for team of 15 Members Part of ICICI technology Team.
- Managing and Enhancing Anti Money Laundering Software(AMLOCK) which is used by Compliance Team of 3000 members
- Modifying existing logics of Application according to respect Compliance Requirement across Geographies like India, Canada, Singapore, Bahrain , UK and US.
- Updating Application to newer versions to enhance functionalities and make application more user friendly

## DATA CHALLENGE

### HSBC Big Data Challenge *Dec'18 – Jan'19*

- One of the **top 7 finalists** out of the 240 teams that participated in the HSBC data challenge conducted during the Shaastra'19
- Applied **Feature Engineering** to the model by introducing new features like **volume imbalance, price imbalance etc**
- Predicted the short-term stock prices using **Unidirectional LSTM Model** and obtained an **RMSE** of **2.33**

### JP Morgan Quant Challenge *Aug'18 – Sep'18*

- Secured a team rank of 79 all over India by Predicting Dynamic Flight Pricing using Machine Learning
- Created new features from Passenger Booking Information to capture Dynamic Pricing
- Applied Random Forest and Gradient Boosting Model and predictions were ensemble to make results more accurate

### PUBG Winner Prediction Challenge(Kaggle) *Sep'18 – Dec'19*

- Currently holding a rank of 272 in 1534 around the world
- Using feature engineering we have built the prime feature "Skill Factor" of a player to effectively generate predictions
- Shallow Neural Networks were used on 28 lakh rows of data , Batch Normalization was applied to achieve a run time of 20mins with a MSE of 0.0205 while top score was 0.0142

## KEY PROJECTS

### Estimating Strength of Concrete Using Machine Learning Techniques *Feb'19 – Apr'19*

- Analysed a dataset consisting of around **1000 data points** consisting of **8 properties of concrete** as input parameters
- Performed exploratory data analysis and predicted strength of concrete using linear regression, random forest regression
- Obtained feature importance plots, applied feature engineering from the **domain knowledge expertise** to introduce 3 new features
- Predicted the final model using **Random Forest Regressor** and obtained an **RMSE** of **3.27** with a very few outliers

## COURSE WORK

- Machine Learning(Coursera)
- Functions of Several Variables
- Neural Networks(Coursera)
- Accounting and Finance for Engineers
- Series and Matrices
- Probability and Statistics

## COMPUTATIONAL SKILLS

- **Languages:** Python, SQL
- **Softwares:** MS Excel, Zerodha

## POSITIONS OF RESPONSIBILITIES

### Saarang General Finance Manager *2017-2018*

- **Handled** 30% (nearly 42 lakhs) of Budget Flow in Saarang from 5 clubs out of 12 including payments to artisits and Vendors
- Introduced a Saarang Standard Invoice as an initiative to cover up the Draw backs of last year which delayed payments to artists

### Finance Core ,Civil Engineering Association, IIT Madras *2016-2017*

- Effectively managed a budget of around **INR 12,00,000** among various events of the fest held throughout the year across all teams
- Boosted the sales of T–Shirts and other goodies by implementing strategies like introducing discounts on various combo packs
- Introducing an initiative "PPM Portal" which could minimize the errors in names of Winners and reduce the time taken to complete a Certificate.

| CO-CURRICULAR & EXTRA-CURRICULAR ACTIVITIES | • **Trading:** I am familiar with Trading in Equities, Options and Derivatives in Capital Markets(India)<br>• Saathi Mentor: Mentored a group of 10 Students(Fresher's) and guided them in their Sophomore Year**.**<br>• Finance Club: Selected as a Super Member in IITM Finance Club by Qualifying a test in top 20 percentile among 200 students |
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