

K Sundar Rajan

SOFTWARE ENGINEER

☎ (+91) 9500141644 | ✉ sundarrajan.k.10@gmail.com | 📱 sundar-10 | 🌐 sundarrajan/

Work Experience

IIT Madras

Chennai

INTERN

December 2018 - February 2019

- Created an adaptor application using Python & JavaScript which helps users feed any ML algorithm to the application, connect to a database(Postgres) and point to a table, choose the dependent and independent variables from the table, run the given ML algorithm and see the predictions in an user friendly way.

Freshworks Inc.

Chennai

SOFTWARE DEVELOPER INTERN

May 2018 - July 2018

- Integrated apps such as Tokbox,ZOHO Books,ZOHO Inventory, etc with the Freshdesk helpdesk software using Freshdesk's SDK built on NodeJS.

Education

SSN College Of Engineering

Chennai

B.E. IN COMPUTER SCIENCE AND ENGINEERING

August 2016 - May 2020

- CGPA : 8.20

Projects

Geo-Fencing Based Approach for Identifying Cab Hotspots

Chennai

TECHNOLOGIES USED - APACHE PULSAR

October 2019 - Ongoing

- Identifies the cab hotspots in a geo-location based on the live location of cabs which is a stream data ingested into the pulsar message queue.
- Sends an alert if the cab density in any geo-location exceeds a certain threshold value.
- Predicts the cab demand for the next day based on historical data.

Elevator Simulation

Chennai

TECHNOLOGIES USED - PYTHON,FLASK,JAVASCRIPT

September 2019 - October 2019

- An application which simulates the functioning of K elevators in an N floored building using 2 algorithms - Shortest Path First and Look.

Speech Recognition

Chennai

TECHNOLOGIES USED - PYTHON,TENSORFLOW,MICROSOFT AZURE

October 2018 - December 2018

- Recognised several words from speech dataset available in the Tensorflow website by converting it into spectrogram images. Different CNN architectures were run in a Microsoft Azure Standard NC6 (6 vcpus, 56 GiB memory) instance and the best model(best accuracy) was obtained.

Technical Strengths

Languages	C/C++ (Proficient) ,Python (Adept), JavaScript (Adept), HTML/CSS (Adept), Java (Beginner)
Technologies	Apache Pulsar, Microsoft Azure, Flask, Postgres, Tensorflow
Skills	Data Structures, Algorithms, Deep Learning, SQL, Distributed Systems

Achievements

- 2017 **ACM ICPC**, Qualified for Asia Regionals Kharagpur
- 2017 **ACM Chennai Provincial Contest '17**, 4th place
- 2016 **Indian National Olympiad in Informatics(INOI)**, Qualified by clearing Zonal Computing Olympiad
- 2018/2019 **Facebook Hackercup**, Cleared qualification and first round
- 2018/2019 **Google Code Jam**, Cleared qualification and first round
- 2016-19 **Technical Symposiums**, Won several programming contests in various college techfests

Certifications

- 2018 **Neural Networks and Deep Learning**, Coursera
- 2018 **Improving Neural Networks: Hyperparameter tuning, Regularization and Optimization**, Coursera
- 2018 **Structuring Machine Learning Projects**, Coursera

Organizations and Interests

Google AI Explore ML	Student Facilitator for the Google AI's Explore ML Program.
Codechef Trainer	Trainer at a week long programming workshop conducted by Codechef for School and College students.
Competitive Programming	Active Problem Solving on Codeforces and Codechef
SSN Coding Community	Head of SSN Coding Community - MAXFLOW
Professional Carnatic Violinist	Music lover. Performed over 300 concerts in various prestigious halls all over India such as Shanmukhananda Hall (Mumbai).