Ravi Kiran Selvam

Apt #5, The Spot, 721 W 30th Street, Los Angeles, CA 90007|rselvam@usc.edu|www.sravikiran.com |+1 213-800-6664

EDUCATION
M.S in Applied Data Science
University of Southern California - Viterbi School of Engineering **May 2021***
B.E. in Computer Science *(Among top 5% out of 180 students)*
Anna University - CEG Campus CGPA- 9.47/10 **April 2019**

SKILLS
Languages: Python, SQL, C, C++ (Proficient); JAVA, Bash (Intermediate);
Data Analysis: Exploratory Data Analysis, Time Series Analysis, Model Evaluation
Data Management and Engineering: MongoDB, Snowflake, Azure Data lake
ML Frameworks: Tensorflow, Keras, scikit-learn
Data Visualization: Plotly, matplotlib
Others: Git, Markdown, Flask, Bootstrap, JavaScript, Android, Software testing, OO design skills

EXPERIENCE
***Data Science Intern,* Motorq** **December 2018 - June 2019**
- Set up the **initial Data Science workflow** and infrastructure for building ML models
- Analyzed **large-scale connected car data** from IoT devices and solved problems such as refueling event detection, idling time detecting, trip completion event detection; Designed and Implemented **various engine hour metrics, meta-metrics** for different parameters of car data and analyzed the trends across time
- Build the **battery voltage failure prediction model** based on the number of parameters from car data
- Tech stack: **python, numpy, pandas, matplotlib, plotly, scikit-learn, tensorflow, snowflake, Azure Data lake, Azure VM**

***Machine Learning Intern,* Kenome Technologies** **May 2018 - June 2018**
- Built a deep learning model to perform **sequence tagging** for colors, materials, and patterns in text document and observed a maximum F1 score of 0.94 for tagging colors and materials in the testing data set
- Built a dashboard to **visualize the crypto-currency prediction model**
- Tech stack: **python, TensorFlow, Keras, AWS EC2, plotly, d3**

***Software Development Engineer Intern,* Amazon** **May 2017- July 2017**
- Developed prototype features for **Amazon-Fire TV Stick** to integrate marketing notifications using Amazon's internal library and to integrate IMDB ratings with Amazon Prime videos
- Tech: **Java, XML, Software testing, Software design principles**

OPEN SOURCE CONTRIBUTIONS
***Google Summer of Code 2018 Student Developer,* CERN** **April 2018 - August 2018**
- Provided support for advanced deep learning optimizers in the open-sourced **ROOT-TMVA, a data analysis software framework** by CERN
- Implemented deep learning optimization algorithms (SGD, RMSProp, Adam, Adagrad, etc.) in CPU & GPU architectures by exploiting the parallel programming capabilities; my code has been successfully integrated into the new production release of ROOT version 6.16
- Tech stack: **C++, Blas, CUDA, CuBlas**

RESEARCH PAPERS PENDING PUBLICATION
- Mahalakshmi G.S*, Makesh Narsimhan Sreedhar*, **Ravi Kiran Selvam***, Sendhilkumar S: ***Exploiting Bi-LSTMs for Named Entity Recognition in Indian Culinary Science***; In proceedings of the 4th international conference on Next Generation Computing Technologies, NGCT 2018; In Communications in Computer and Information Science Series of Springer Journal. (accepted and presented on **November 2018**)

CERTIFICATIONS
- Big Data Specialization (series of 6 courses) by UofCalifornia San Diego, Coursera, **(ongoing)**
- Deep Learning Specialization (series of 5 courses) by Deeplearning.ai, Coursera, **March 2018**
- Machine Learning by Stanford University, Coursera, **December 2017**
- Codechef Certified Data Structures and Algorithms Program (CCDSAP) - Advanced Level, CodeChef, **November 2017**