**GAYATHRI RAVICHANDRAN**

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**EDUCATION**

**University of Southern California, Los Angeles**

*Master of Science, Computer Science 2019(Expected)*

### M.S Ramaiah Institute of Technology, Bangalore, India

*Bachelor of Engineering, Computer Science* **GPA: 9.24/10** *2017*

### SKILLS

C, C++, Java, Python, Ruby, MySQL • HTML5, CSS, Ruby on Rails, JavaScript • Hadoop, NLTK, MATLAB, OpenGL, OpenCV, WEKA, Corona SDK, Android

### EXPERIENCE

**Project Intern**

*InnovationHub Technologies Pvt. Ltd, Bangalore, India Feb- June, 2017*

* Developed an OCR [Optical Character Recognition] based facilitator for visually impaired.
* Performed complex image pre-processing – segmentation, binarization and feature extraction.
* 94% accuracy was obtained on a data set of around 500 images.

### Project Intern

*SCSK Corporation, India Nov 2016- Jan 2017*

* + Developed an excel spreadsheet model for evaluating bank revenues for next 15 years.
  + Collaborated with management team in identifying new segments in Indian market for banking software OrfeG.
  + Worked on a Go-To-Market strategy for future expansion.

### Teaching Assistant

### *Community Outreach Program, India* *Nov 2015- Feb 2016*

* Conducted seminars, graded assignments and hosted lab sessions. Class totaled over 120 students.

**PROJECTS**

### “Mining Student Data by Ensemble Classification and Clustering for Profiling and Prediction of Student Academic Performance”

*ASEE Mid Atlantic Section Conference, Hofstra University, New York*

* Used multiple classifiers to improve the quality of data by filtering outliers.
* An accuracy of 91% was obtained on a data set of 3000 records.

### “dBot: AI Based Conversational Agent”

*International Journal of Science and Research*

* + Designed and developed an artificial intelligence bot that works on top of desktop applications.
  + Performed NLP, part of speech tagging, sentiment analysis and classification.

### Applying Genetic Algorithms for Traffic Light Control

* + Objective functions are defined to minimize delays and maximize traffic flow at intersections.
  + Experiment shows that genetic algorithms outperform vehicle actuated system.
  + Achieved a performance improvement of 30% during peak-hour times.

### Emulator for the CLR Parser

* + Includes a set of predefined grammar and an interface that converts each phase of the parsing process into a visual representation on to a webpage. Displays the stack symbols and action for any valid input string.
  + Technologies used: HTML5, CSS3, MySQL, Java, JavaScript, Bootstrap, jQuery

**LEADERSHIP**

### Coordinator, TedX MSRIT *2016*

### Organizer, Computer Science Department Fest, MSRIT *2015*

**RECOGNITIONS**

### GHCI Scholarship *2016*

### Winner of Corona Game Development Challenge, Bangalore *2016*

### Won a cash prize of 2000 INR for standing 2nd amongst 200 participants.

### CBSE Merit Scholarship – for outstanding academic performance *2013*