

# 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 2<sup>nd</sup> amongst 200 participants.
- CBSE Merit Scholarship – for outstanding academic performance 2013