**GAYATHRI RAVICHANDRAN**

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**EDUCATION**



**University of Southern California** May 2019

Master of Science in Computer Science

Relevant coursework: Analysis of Algorithms, Foundations of Artificial Intelligence.

**M.S Ramaiah Institute of Technology, Bangalore, India** May 2017

Bachelor of Engineering in Computer Engineering GPA: 9.24/10

**EXPERIENCE**

**InnovationHub Technologies Pvt. Ltd** Jan 2017 – June 2017

Project Intern

● Developed an Optical Character Recognition Based Facilitator for the Visually Impaired.

● Performed complex image processing- segmentation, binarization and feature extraction.

● 94% accuracy obtained on a data set of 500 images.

**SCSK Corporation, India** Nov 2015 – Dec 2015

Research Intern

● Developed an excel spreadsheet model to evaluate bank revenues for the next 15 years.

● Collaborated with the management team in identifying new segments in Indian Market for their software OrefG.

● Worked on a Go to market strategy for future expansion.

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

Teaching Assistant

● 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.** July 2016 - Oct 2016

● Used multiple classifiers ( Naïve Bayes, J48 and SVM) to improve the quality of data by filtering outliers.

● An accuracy of 91% was obtained on a data set of 3000 records.

● This project has been published as a paper in the ASEE Mid Atlantic Section Conference Journal.

**dBot: AI Based Conversational Agent** Sept 2016 - Dec 2016

● Designed and built an artificial intelligence chat bot that works on top of desktop applications.

● Performed NLP, part of speech tagging, sentiment analysis and classification.

● This project has been published as a paper in the International Journal of Science and Research.

**Applying Genetic Algorithms for Traffic Light Control** Oct 2015 - Dec 2015

● Objective functions are defined to minimize delays and maximize traffic flow at intersections.

● Experiments show that genetic algorithms outperform vehicle actuated systems.

● Achieved a performance improvement of 30% during peak-hour times.

**CLR Parser** Aug 2015 - Nov 2015

● LR(1) parser consists of a parsing stack, parsing table and a driver function that interacts with the scanner.

● Includes a set of predefined grammar and an interface that converts each phase of the parsing process into a visual representation onto a webpage.

● Displays the stack symbols and actions for any valid input string.

**SKILLS**

**Languages:** Python, Java, C, C++

**Web Development:** HTML, CSS, JavaScript, Ruby on Rails, jQuery, MySQL

**Frameworks/Packages:** OpenGL, OpenCV, MATLAB, WEKA, Corona SDK, Android

**RECOGNITIONS**

GHCI Scholarship Recipient. December 2016

Winner of Corona Game Development Challenge, Bangalore. June 2016

Coordinator, TedX MSRIT. Sept 2016