GAYATHRI RAVICHANDRAN

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EDUCATION

University of Southern California May 2019
Master of Science in Computer Science GPA: 3.5/4
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

4.0/4.0 GPA in Artificial Intelligence under Prof. Laurent Itti December 2017
GHCI Scholarship Recipient. December 2016
Winner of Corona Game Development Challenge, Bangalore. June 2016
Coordinator, TedX MSRIT. Sept 2016