GAYATHRI RAVICHANDRAN

310-920-2955 | gravicha@usc.edu | LinkedIn | Website/Portfolio

EDUCATION

University of Southern California, Los Angeles *May 2019*
Master of Science, Computer Science
Relevant Coursework: Analysis of Algorithms, Artificial Intelligence

M.S Ramaiah Institute of Technology, Bangalore, India *June 2017*
Bachelor of Engineering, Computer Science **GPA: 9.24/10**

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- Jun, 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*