GIRIDARA VARMA ELUMALAI

giridar.v.e@gmail.com * (+1)9726932301

SUMMARY

A good team player and a well-rounded graduate student with keen problem-solving and analytical skills, looking for internship/full-time opportunities in the field of Software Development and Machine Learning.

EDUCATION

University of Texas, Dallas

Aug 2015 – *May* 2017 (Expected)

Master of Science in Computer Science (Intelligent Systems)

GPA - 4.0/4.0

Madras Institute of Technology - Anna University, Chennai

Aug 2007 – Apr 2011 CGPA - 7.96/10.0

Bachelor of Technology in Information Technology

RESEARCH EXPERIENCE

Graduate Research Volunteer

Jan 2016 – Present

- Working on applying Q-learning/Reinforcement learning using Artificial Neural Networks to make decisions in a Communication Network
 - Designing Neural Networks to approximate a Q-function/Reward function whose state-space is exponential in the size of the state variables and cannot be stored in a simple look-up table

ACADEMIC PROJECTS

PacMan AutoPlayer

• Implemented auto-play in a PacMan game using various Artificial Intelligence and Machine Learning based algorithms like A* search and Hidden Markov Model in Python

2048 Game Solver

• Worked on a Machine Learning based solver for the famous 2048 board game using Naive Bayes and Bayesian Networks with structure learned from Chow-Liu Trees in Java and Selenium

Classification & Clustering

• Spam email classification using Support Vector Machines and Gaussian Kernels, Mushroom edibility classification using Decision Trees in Matlab, and Spectral clustering of foreground and background pixels in an image using k-Means Clustering in Matlab.

PROFESSIONAL EXPERIENCE

Software Development Engineer - Test, Amazon, Chennai

Feb 2013 – Sep 2014

- Designed an Automation framework for testing Android applications by simulating user-like events
- Worked on a Test framework for the web services of Kindle Document Delivery System

Quality Assurance Technician, Amazon, Chennai

Aug 2011 - Jan 2013

• Developed an Android application to capture the processor, memory, network and power usage of other foreground applications

RELEVANT COURSES

Machine Learning, Probabilistic Graphical Models, Multi-core Programming

TECHNICAL SKILLS

Java, Python, Matlab

AVAILABILITY

Spring (Jan – May '17), Summer (May – Aug '17)

VISA STATUS F1 (Student)