

HARSHINI KEERTHI VASAN

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EDUCATION

Master of Science, Computer Science	May 2019
University of Utah, Salt Lake City, Utah, GPA: 3.8/4	
Bachelor of Engineering, Computer Science and Engineering	May 2014
Anna University, Chennai, India, GPA: 8.3/10	
Deep Learning Specialization	Aug 2018
Deeplearning.ai, Coursera	
Relevant Coursework: Advanced Algorithms, Machine Learning, Natural Language Processing, Database Systems, Data Mining, Data Structures, Object Oriented Programming, Operating Systems, Software Engineering	

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, Groovy, MATLAB, R
Framework & Web Technologies: HTML, CSS, JavaScript, Bootstrap, React, Node.js, Express.js, TensorFlow
Special Tools & Software: Service Now, JIRA, Postman, SoapUI, Git, Cloud9, Jupyter, Pandas, Scikit-Learn
Databases: MySQL, Oracle, MongoDB
Areas: Software Engineering, Full Stack Web Development, Data Science, Machine Learning

EXPERIENCE

Graduate Teaching Assistant: <i>University of Utah, Salt Lake City, Utah</i>	Aug 2018 – Present
CS3810: Computer Organization	
<ul style="list-style-type: none">Explain the implementation of assembly language instructions in MIPS architecture to around 200 students.Evaluate homework, exams, and hold office hours to ensure students understand the course concepts.	
Graduate Research Intern: <i>University of Utah, Salt Lake City, Utah</i>	Jan 2018 – Aug 2018
<ul style="list-style-type: none">Worked in the Algorithmic Fairness domain to eliminate bias in predictive policing and recidivism feedback.Implemented algorithms on statistical and reinforcement machine learning approaches to optimize the efficiency of semi bandit feedback algorithm in an online linear optimization framework to mitigate the bias problem.	
Project Engineer: <i>Wipro Technologies, Chennai, India</i>	Nov 2014 – May 2017
<ul style="list-style-type: none">Developed a web service for an internal gift card activity based on C++ and SoapUI tool.Analyzed erroneous production code, identified over several patterns of issue occurrences and created code fixes that enhanced the application performance by 60%.Developed scripts on SoapUI using Groovy programming language to automate test cases for refund applications that saved the testing time by 50%.Held the responsibility to train around 3 batches of rookies on Web Service Architecture implementation in Java.	

PROJECTS • GITHUB HANDLE

Yelp Camp Web Application	May 2018 – Jul 2018
<ul style="list-style-type: none">Developed a full stack Node.js web application for creating and reviewing camping websites all over the world.Designed the front-end user interface with HTML5/CSS/EJS/Bootstrap. Implemented the backend using JavaScript, Express and MongoDB. Exposed the application using REST/HTTP APIs.	
A Data Mining Approach on Attrition Rate Analysis of Employees	Jan 2018 – Apr 2018
<ul style="list-style-type: none">Determined the most important factors that affect the attrition rate of employees using Python and R.Applied techniques such as Data Preprocessing, Data Exploration, Principal Component Analysis, Clustering and Apriori algorithm to find the correlation between various factors on the HR Analytics dataset (Kaggle).	
Question Classification using Supervised Machine Learning Algorithms	Oct 2017 – Dec 2017
<ul style="list-style-type: none">Developed an automated question classification system through machine learning approaches in Python.Implemented feature extraction on the data set (TREC Data) using Natural Language Processing techniques.Experimented the accuracy of the classifier on 5 machine learning algorithms – Decision Tree, Perceptron, Support Vector Machines (SVM), Nearest Neighbors (NN) and Naive Bayes (NB).	
Information Extraction using Natural Language Processing	Oct 2017 – Dec 2017
<ul style="list-style-type: none">Designed and built an information extraction system for Latin American news articles using Python.Used Natural Language Processing techniques such as sentence tokenization, regex matching, noun phrase extraction and POS tagging. Achieved an F-Score of 0.41 on the final test set.	
Weather Application - Using ReactJS	May 2017 – Jun 2017
<ul style="list-style-type: none">Developed a client application to show the weather details of a particular city for the next 5 days.Implemented React routing as an enhancement and used Gulp to transform JSX into JS.	

ACHIEVEMENT

Prodigy Award , Wipro Technologies, for handling a critical gift card service release.	Jul 2017
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