

SRINIDHI SRINIVASA RAGHAVAN

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EDUCATION

Columbia University in the city of New York

New York, USA

Master of Science in Computer Science, Machine Learning Track, 3.45/4.00 GPA

Sept 2016 - Dec 2017

Coursework: Machine Learning, Cloud Computing and Big Data Analytics, Analysis of Algorithms, Natural Language Processing, Design using C++, Artificial Intelligence, Programming and Problem Solving, Reinforcement Learning

Teaching Assistantship: Web App Development using Python, Data Analytics using Python

St. Francis Institute of Technology, University of Mumbai

Mumbai, India

Bachelor of Computer Engineering, First Class with Distinction, 79%

Aug 2011 – July 2015

Coursework: Operating Systems, Database Management Systems, Compiler Construction, Data Warehousing and Mining, Soft Computing, Distributed Systems, Human-Computer Interaction

Teaching Assistantship: Data Structures, Discrete Mathematics and Graph Theory, Software Engineering and OO Design

EXPERIENCE

Creative Machines Lab, Columbia University

New York, USA

Research Assistant

Sept 2017 - Present

- Working on a project on 3D Food Printing; Responsibilities include code refactoring, optimizing efficiency, resolving existing bugs, integrating with sensors and improving pre-print visualization

Jefferies LLC

New York, USA

Summer Quantitative Analyst/ Software Developer Intern

May 2017 – Sept 2017

- Researched the trends on alpha (information retrieved from a client) and programmed a model to statistically determine it
- Developed an application to periodically download files from a SFTP host, pre-process it in R and load it to the database. Also, worked on the webservice to compute the risk of a portfolio based on the pre-processed values
- Initiated the development of a reusable Java-based utility to enhance FTP downloads. Also, improved the performance on bulk inserts using SSIS package from 12 minutes for 3.6 million rows to just 2 seconds

CPConverge

Mumbai, India

Software Developer/Applied Data Scientist

July 2015 – June 2016

- Engineered an application to appraise empirical data of students. Observed 600 enrollments with 82% positive feedback
- Managed a 3-member team to develop an Adaptive Test. Formulated 450 Quantitative Aptitude questions for the Aptitude test

ACADEMIC PROJECTS

CliqueLib

Feb 2017 - May 2017

- Built a machine learning library (exclusive for classification and ensemble methods) in C++ using Armadillo matrix
- Examined on two use-cases: Face Detection using Viola Jones and Cancer Detection
- Benchmarked the performance for logistic regression. Achieved accuracy of 85.84 % in 6.54 seconds

Dynamic Carpooling Application

Oct 2016 - Dec 2016

- Devised Python-based real-time carpooling application which does an optimal matching of drivers and riders. Hosted in AWS

Video Summarization using Clustering

Nov 2014 - June 2015

- Awarded as Best Project in 2015
- Created a stand-alone application to construct meaningful summary of input video within a short time-span
- Employed temporal segmentation and clustering techniques like K-Means, Kekre's Proportionate Error and Fuzzy C-Means
- Analyzed the performance on 6 different video categories based on 3 parameters - processing time, accuracy and length of output video. Accomplished an average processing time of 1/24th the video length for surveillance videos

SKILLS

Java, Python, C#, R, C++, MATLAB, Octave, OneTick, C, LAMP, JS, SQL Server, PostgreSQL, AWS, WEKA, TensorFlow, Hadoop

ACCOMPLISHMENTS

1st Prize in intra-college Technical paper presentation on Big Data Analytics

Sept 2013

Cofounder of nonprofit organization "Agli-Mumbai"

Oct 2013

Academic Excellence Award

Feb 2013, Feb 2012

Cleared KVS Regional Mathematical Olympiad

Oct 2009