

# SRINIDHI SRINIVASA RAGHAVAN

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## INTERESTS

Machine Learning, Artificial Intelligence, Software Development, Statistical Modelling, Quantitative Data Analysis, Problem Solving

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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 Sept. 2016 - Dec. 2017  
**Coursework:** Machine Learning, Artificial Intelligence, Cloud Computing and Big Data Analytics, Analysis of Algorithms, Natural Language Processing, Design using C++, 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, Databases, Compiler Construction, Data Warehousing, Mining and Information Retrieval, Soft Computing and Neural Networks, Distributed Systems, Human-Computer Interaction  
**Teaching Assistantship:** Data Structures, Discrete Mathematics, Software Engineering, OO Design and Modeling

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## 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 on the trends on alpha (information retrieved from client) and programmed statistical models to determine it  
• Developed an application to periodically download files from SFTP host, pre-process it in R and load it to relational database. Also, worked on the webservice to compute the risk of portfolio based on pre-processed values. Improved the performance on bulk inserts from 12 minutes (using SSIS package) for 3.6 million rows to 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

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## 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 on 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 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 1/24<sup>th</sup> the video length for surveillance videos

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## ACCOMPLISHMENTS

1<sup>st</sup> 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 Math Olympiad Oct. 2009

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## SKILLS

Java, Python, C#, Numpy, Pandas, Scikit-Learn, R, C++, MATLAB, OneTick, C, HTML, CSS, LAMP, JS, SQL Server, API (Google Maps, Twitter, IMDB), AWS, Git, Linux, Windows, WEKA, TensorFlow, Hadoop, NoSQL, Spark, OpenCV, Hive