

## Summary

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Software Engineer with around 5 years of experience in Fullstack Web development. Currently pursuing Masters in Computer Science at New York University with focus on Machine Learning, and Deep Learning. In my next career, I would love to solve interesting challenges using Machine Learning.

## Education

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<b>Master of Science, Computer Science</b>	<b>Dec 2016</b>
Courant Institute of Mathematical Sciences, New York University.	CGPA 3.75/4.0
<b>Course List:</b> Deep Learning, GPU — Architecture & Programming, Computational Machine Learning, Foundational Machine Learning, Web Search Engine, Realtime & Big data analysis.	
<b>Teaching Experience</b> Tutor for Graduate Computer Vision; Grader for Multicore Programming.	
<b>Bachelor of Technology, Information Technology</b>	<b>May 2010</b>
Government College of Technology, Coimbatore	CGPA 8.01/10.0

## Academic Projects

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<b>Improving classification accuracy on STL-10 dataset.</b>	Torch (Deep Learning)
Used convolutional clustering on around 100K unlabelled images to learn the first layer of features used in the convolutional network. This improved the classification accuracy by 2%.	
<b>Grasp &amp; Lift Detection.</b>	Python, Numpy, Scipy, HPC
Used VLAD feature representation and SVMs for the multi class classification problem of detecting a person's hand movements from EEG signals.	
<b>Liver &amp; Pancreatic carcenoma classification.</b>	Python, Numpy, Scipy, HPC
We classified liver and pancreatic cancer using DNA protein expression data. We got an accuracy of 97% inspite of having an unbalanced data with more features(~500K) than samples(~700).	
<b>Correlation analysis of taxi ridership and public events.</b>	Spark, Hive, Python, HPC
Using NYC taxi ride dataset (26GB) and events data from Eventful API, we were able to find a 60% increase in the ridership of NYC taxis when a public event happens in the locality.	

## Work Experience

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<b>Data Science Intern</b>	<b>Eyenuk Inc, Los Angeles, CA.</b>	<b>Jun 2016 — Aug 2016</b>
<ul style="list-style-type: none"><li>Explored the classification of Diabetic Retinopathy with Residual Networks against VGG model.</li><li>Setup a scalable production AWS deployment using VPC, Route 53, ELB, ACM, and RDS.</li></ul>		
<b>Software Consultant</b>	<b>Canvera Technologies, India.</b>	<b>Jan 2014 — Sep 2014</b>
<ul style="list-style-type: none"><li>Performance Optimization — Load time: ~10 sec → 1 sec. Asset size: ~1.5Mb → ~600Kb.</li><li>Setup the application architecture &amp; development process. Mentored the development team.</li></ul>		
<b>Founding Member</b>	<b>f1circle.com, India.</b>	<b>May 2013 — Nov 2013</b>
<ul style="list-style-type: none"><li>Built the complete application from scratch. (ROR, Angularjs, Memcached, Redis)</li><li>Built Information extraction engine. It extracts name, place, &amp; price info from user's posts.</li></ul>		
<b>Freelancer</b>	<b>India.</b>	<b>May 2013 — Jan 2015</b>
<ul style="list-style-type: none"><li>Implemented the common sign-on page, branding workflows and modal framework for Vera.</li><li>Built Urblotter; a betting website for FIFA 2014. (ROR, Angularjs).</li></ul>		
<b>Software Engineer</b>	<b>Insideview Inc, India</b>	<b>Oct 2011 — May 2013</b>
<ul style="list-style-type: none"><li>Developed in-product notification framework using Drools framework &amp; Lucene indexes.</li><li>Built the Activitystream security framework using AWS Simpledb and custom eventbus.</li></ul>		
<b>Software Engineer</b>	<b>United Online Inc, India</b>	<b>Jul 2010 — Sep 2011</b>
<ul style="list-style-type: none"><li>Built a RPC framework for spam filtering. Automated day-to-day tasks using Perl scripts.</li></ul>		