

## 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>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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2015 — 2016

- Improving classification accuracy on STL-10 dataset.** 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%.
- Grasp & Lift Detection.** 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.
- Liver & Pancreatic carcenoma classification.** 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).
- Correlation analysis of taxi ridership and public events.** 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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Around 5 years

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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 <b>Residual Networks</b> against <b>VGG</b>.</li><li>Setup a scalable production AWS deployment using <b>VPC, Route 53, ELB, ACM, and RDS</b>.</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 Optimizations — 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. (<b>ROR, Angularjs, Memcached, Redis</b>)</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 (app.urblotter.com) a betting website for FIFA 2014. (<b>ROR, Angularjs</b>).</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 <b>Drools framework &amp; Lucene indexes</b>.</li><li>Built the Activitystream security framework using <b>AWS Simpledb</b> 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>  |                                     |                            |