

## 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 Big Data & Machine Learning.

## Education

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### Master of Science, Computer Science Dec 2016

Courant Institute of Mathematical Sciences, New York University. CGPA 3.75/4.0

**Course List:** Deep Learning, GPU — Architecture & Programming, Computational Machine Learning, Foundational Machine Learning, Web Search Engine, Realtime & Big data analysis.

**Teaching Experience** Tutor for Graduate Computer Vision; Grader for Multicore Programming.

### Bachelor of Technology, Information Technology May 2010

Government College of Technology, Coimbatore CGPA 8.01/10.0

## Academic Projects 2015 — 2016

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### 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 Around 5 years

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### Data Science Intern Eyenuk Inc, Los Angeles, CA. Jun 2016 — Aug 2016

- Explored the classification of Diabetic Retinopathy with Residual Networks against VGG model.
- Setup a scalable production AWS deployment using VPC, Route 53, ELB, ACM, and RDS.

### Software Consultant Canvera Technologies, India. Jan 2014 — Sep 2014

- Performance Optimization — Load time: ~10 sec → 1 sec. Asset size: ~1.5Mb → ~600Kb.
- Setup the application architecture & development process. Mentored the development team.

### Founding Member f1circle.com, India. May 2013 — Nov 2013

- Built the complete application from scratch. (ROR, Angularjs, Memcached, Redis)
- Built Information extraction engine. It extracts name, place, & price info from user's posts.

### Freelancer India. May 2013 — Jan 2015

- Implemented the common sign-on page, branding workflows and modal framework for Vera.
- Built Urblotter; a betting website for FIFA 2014. (ROR, Angularjs).

### Software Engineer Insideview Inc, India Oct 2011 — May 2013

- Developed in-product notification framework using Drools framework & Lucene indexes.
- Built the Activitystream security framework using AWS Simpledb and custom eventbus.

### Software Engineer United Online Inc, India Jul 2010 — Sep 2011

- Built a RPC framework for spam filtering. Automated day-to-day tasks using Perl scripts.