

Summary

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

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.	
Bachelor of Technology, Information Technology	May 2010
Government College of Technology, Coimbatore	CGPA 8.01/10.0

Academic Projects

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

Around 5 years

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| Data Science Intern | Eyenuk Inc, Los Angeles, CA. | Jun 2016 — Aug 2016 |
| <ul style="list-style-type: none">Explored the classification of Diabetic Retinopathy with Residual Networks against VGG.Setup a scalable production AWS deployment using VPC, Route 53, ELB, ACM, and RDS. | | |
| Software Consultant | Canvera Technologies, India. | Jan 2014 — Sep 2014 |
| <ul style="list-style-type: none">Performance Optimizations — 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 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">Implemented the common sign-on page, branding workflows and modal framework for Vera.Built Urblotter (app.urblotter.com) a betting website for FIFA 2014. (ROR, Angularjs). | | |
| Software Engineer | Insideview Inc, India | Oct 2011 — May 2013 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">Built a RPC framework for spam filtering. Automated day-to-day tasks using Perl scripts. | | |