

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 Big Data & 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.
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

- 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

- 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.