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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

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 Enginneer — **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 Enginneer — **United Online Inc, India** — **Jul 2010 — Sep 2011**
- Built a RPC framework for spam filtering. Automated day-to-day tasks using Perl scripts.