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## EDUCATION

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MS, COMPUTER SCIENCE (Courant Institute of Mathematical Sciences, New York University) **3.82**

Course List: *Foundations of Machine Learning, Computational Machine Learning, Realtime & Bigdata Analytics, Fundamental Algorithms, Operating Systems, Programming Languages, Financial Computing.*

B.TECH, INFORMATION TECHNOLOGY (Government College of Technology, Coimbatore.) 8.01

## PROJECTS

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**Grasp & Lift EEG Detection** — Multiclass classification of a person's hand action using EEG signal information. Built using custom and scikit-learn's components.

*Dataset size:* 4G. *Feature Representation:* Vlad & BOW. *Models:* Linear & Gaussian SVM.

**Liver & Kidney cancer classifier** — Identify the best biomarker for cancer between DNA Methylation and Protein Expression by using binary classification on unbalanced data.

*Dataset size:* 20G. *Feature Representation:* PCA of original features. *Models:* Linear & Gaussian SVM, Logistic Regression, Adaboost, Gaussian Naive Bayes.

**Music Recommendation System** — Recommender built by using a song's low level features.

*Dataset size:* 300G. *Feature Representation:* Vlad, BOFW, Mean vectors. *Models:* Linear & Gaussian SVM, Logistic Regression.

**Events & Taxi ridership correlation** — Exploratory correlation analysis between NYC Taxi ridership & Events using Python Spark, Hive and map-reduce technologies.

*Dataset size:* 30G. *Feature Representation:* Taxi rides grouped by zipcode and time slices. *Models:* Moving averages and then finding correlations.

**Online Judge** — OPC judge similar to codeforces.com, spoj.com. Powered the Programming contest held during the technical symposium Infoquest 2010. The judge is written entirely in C.

## EMPLOYMENT

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4 YEARS, 6 MONTHS

Freelance Software Developer Nov 2013 to Jan 2015

- Worked as a full-stack developer on Vera, app.urblotter.com and 'Today in History' iPhone App.
- Technologies used: AWS, ROR, Angularjs, J2EE, HTML, CSS, Javascript, SCSS/LESS.

Consultant, Canvera Technologies Jan 2014 to Oct 2014

- 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 Jan 2013 to Oct 2013

- Built the initial version of **Intellibox** — **Information extraction engine** and the web app.

Software Engineer, Insideview Inc Oct 2011 to May 2013

- Built an award winning **Company recommendation engine** in Insideview Hackaton 2012.
- Improved the performance by 50% for Insideview connections feature. (*Java, J2EE*)
- Developed in-product notification framework using Drools framework & *Lucene indexes*.

Software Engineer, United Online Inc. Jul 2010 to Sep 2011

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