Anirudhan J Rajagopalan
anirudhan@rajegannathan.in
+1– (646)-436 -3808
https://github.com/rajegannathan
https://www.linkedin.com/in/rajegannathan
http://stackoverflow.com/users/846970/anirudhan-j

Education

MS, Computer Science (Courant Institute of Mathematical Sciences, New York University) **3.82**

Course List: *Deep Learning, Computational Machine Learning, Foundations of Machine Learning, Web Search Engines, Realtime & Bigdata Analytics, Fundamental Algorithms, Operating Systems.*

B.Tech, Information Technology (Government College of Technology, Coimbatore.) 8.01

Research project

Kernel based approaches for Change point detection In this project we explore Kernel based approaches for exploiting the spatial relationship between EEG electrodes for finding the Change points in EEG signal data. This will help in developing better BCI applications.
I am working with Prof. Zaid Harchaoui from NYU CILVR lab in this project

Academic Projects

Political opinion generator — Generate the summary of the opinions of political candidates by crawling news web sites. To be built using Apache Nutch, Lucene and Scikit-learn. (Ongoing project)

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 binnary 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 audio features.

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

Exploratory analysis of Taxi mobility and events — First step in finding the Most happening places in NYC. Implemented Python Spark map & reduce, and Hive.

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

Employment Jul 2010 to Jan 2015

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

Founding Member, F1circle.com Jan 2013 to Oct 2013

- Built the complete application from scratch. **(ROR, Angularjs, Redis, Memcached, Mysql)**
- Built **Intellibox — Information extraction engine** for extracting details from user posts.

Software Engineer, Insideview Inc Oct 2011 to May 2013

- Built an award winning **Company recommendation engine** in Insideview Hackaton 2012.
- Developed ActivityStream (Cassandra & SimpleDB) and notifification framework (Drools & Lucene).