Revanth Bhattaram

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Education

Dec. 2015 **Masters in Computer Science (CQPA : 4.0/4.0)**, *Carnegie Mellon, School of Computer Science*, PA.
- TA for 15-451 - Algorithm Design and Analysis (Spring '15).
- TA for 10-601 - Introduction to Machine Learning (Fall '15).

July 2014 **Bachelors in Computer Science (CGPA : 9.07/10)**, *Indian Institute of Technology*, Guwahati, India.

Experience

Summer '15 **Software Engineering Intern (Ads Integrity Infra)**, *Facebook*, Menlo Park, CA.
- Developed a tool that extracts **image, text and landing page** features by traversing the DOM structure of an ad preview. The tool has gains over the existing system for 38% of all ad impressions.
- Worked on the development of a **web crawler** to help automate the DOM Parser pipeline.
- System is designed to be **scalable** and is run through every ad that goes into Facebook (over a million ads per day).

Summer '13 **Software Engineering Intern**, *Amazon Development Centre*, Hyderabad, India.
- Developed **Integration Testing Frameworks** for internal team services that automatically run integration tests each time a change is pushed.
- Used Selenium Webdriver to develop a similar framework for the team's internal website.

Summer '12 **Intern**, *International Institute Of Information Technology*, Hyderabad, India.
- Worked on the development of **eAgromet** (eagromet.in), an agro-meteorological advisory system being developed by IIIT Hyderabad, ANGRAU and the IMD.
- Work included the development of a user hierarchy, a user management module, a weather module, advice and bulletin generation module along with a search engine which would search for similar weather patterns.

Projects

Feb.2015–May.2015 **Robot Restaurant**.
- The setting is a restaurant that is run entirely by automated robots. The goal is to come up with a way for the robots to learn their roles. This is viewed as a multi agent reinforcement learning problem.
- The world is modeled as an MDP and the 'learning' part is handled using Q-Learning with various reward schemes and learning strategies.
- The problem of scalability is handled by using the technique of co-ordination graphs.

Sep.2014–Dec.2014 **American Epilepsy Society Seizure Prediction Challenge**.
- This was part of a kaggle competition where the task was to predict the occurrence seizures given iEEG readings from different regions of a patient's brain.
- Characterized data generated by electrodes using Fourier analysis. Observed correlation between electrodes and their relation with the occurrence of seizures.
- Applied various Machine Learning algorithms such as Naive Bayes, Regression Trees, SVM, Kernel SVM and Boosting.

Sep.2014–Dec.2014 **Graph Miner**.
- Surveyed and implemented various graphmining algorithms such as Pagerank, K-core decomposition etc..
- Observed global patterns and anomalies in several real world datasets (from various fields like social networking, online retail, Internet traffic etc..) using the developed package.

Apr.2013–May.2014 **Recommendation System on Mobile Phones (Bachelor Thesis Project)**.
- Project aims to build a recommendation system based off a user's mobile activities. Diversity of information obtained from a user's device is what sets it apart from traditional recommendation systems.
- Phase 1 was spent in building a system to classify a user's activities. A Naive Bayes text classifier with features extracted using Chi Square/Gini coefficients was used.
- Phase 2 was spent in building a user network where collaborative filtering with weighted similarity scores was used to provide recommendations.

Dec.2012 **RCPrep.com**.
- RCPrep is a reading comprehension test simulator to help aspirants in crack the Reading Comprehensions section of various exams.
- The website has received over 300,000 page requests till now and has been on an upward trend since launch.
- The website was developed using Web2Py and an MVC architecture.

Computer Skills

Languages JAVA, Python, PHP, Hack, JavaScript, Matlab, SQL, C++, C, Bash

Technologies Hadoop, Hive, Spark, Presto, Selenium, HHVM, Django, Web2Py, React, FlowType