Ashwin Nikam

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EDUCATION:

- **Pursuing Masters of Science in Computer Science** **Anticipated Graduation Dec 2017**
  State University of New York at Buffalo, Buffalo, NY, USA. GPA: **3.75**
  Courses - Analysis of Algorithms, Software Engineering Concepts, Information Retrieval, Computer Security, Introduction to Machine Learning, Distributed Systems and Data Intensive Computing.
- **Bachelor of Engineering in Computer Engineering** **Aug 2012 - May 2016**
  University of Pune, India, Result: **First Class with Distinction**

TECHNICAL SKILLS WITH HANDS ON EXPERIENCE:

- **Programming languages:** Core and Advanced Java, C++, C, Python, R.
- **Tools & Technologies:** GitHub, BitBucket, Lucene API, Apache Solr, Amazon Web Services, Eclipse IDE, Android Studio, Linux OS, MySQL Database, Jupyter.
- **Web development:** HTML, CSS, Javascript, XML, JSON.

PROJECTS:

- **Data Cleaning and Munging** ***March 2017***
  This project involved extraction and re purposing of the Kaggle Sqlite European Soccer Database to create csv files for question answering. The next part involved using data from Pew Research Center for developing questions and hypothesis. Plots were created to justify cleaning and development of new data frames.
- **Group Messenger with a Local Persistent Key Value Table on Android** ***February 2017***
  The project required implementation of a content provider for each Android emulator instance. The content provider was implemented using internal storage and consisted of key-value pairs. The second part of this project required us to implement multicast between 5 AVDs. These multicasted messages had to be stored on each emulator's content provider.
- **Data Collection and Visualizing Geo Spatial Information using Juyter and R** ***January 2017***
  The objectives of this lab were collecting data by querying the Twitter REST API and processing the data using twitteR library package. Information had to be summarized for specific queries like finding trends of a particular place. Geo spatial information extracted from tweets had to be used in order to plot the tweets related to a specific hashtag, on a map for visualization.
- **Question Answering using Entity Recognition and Natural Language Processing** ***December 2016***
  Developed a QA system for answering what/who/where type questions on twitter data indexed in Solr. The project focused on determining answer types and extracting facts from the tweets which was done using Natural Language Processing (NLP). Main aim of this project was to answer the questions based on these facts. The project required the use of OpenNLP library for POS (Parts of speech) tagging along with entity detection and entity extraction using Google's Cloud Natural Language API.
- **Inverted Index construction and Boolean Query processing** ***October 2016***
  This project required construction of an inverted index from a given Lucene index generated using Reuters RCV2 multilingual corpus. It involved getting familiar with the Lucene index and interacting with the Lucene API. The second part of this project required implementing two strategies for returning boolean query results namely, term-at-a-time and document-at-a-time.
- **Data Collection and Indexing using Solr** ***September 2016***
  This project included interacting with the Twitter API to crawl tweets and index them properly in Solr. Tweets had to be indexed according to the necessary fields and appropriate queries were executed for testing the indexing. The project focused on various concepts covered in Information Retrieval including tokenization, stemming and stop-word removal.
- **Automated Healthcare System** ***May 2016***
  This project focused on developing a system which automates the process of medical diagnosis. The system learns from previous input of the user in order to improve the efficiency of its diagnosis and ask further question depending upon the provided input. This project included various concepts like pattern recognition, association rules and decision making.

SEMINARS:

- **Internet of Things for Smart Cities** ***April 2015***
  Conducted a seminar on Internet of Things for Smart Cities during my third year of Engineering. The seminar included elaboration of the concept called as Internet of Things and how it can be implemented for smart cities. It also covered the roadblocks, architecture, protocols, applications and some real time examples involved in implementing Internet of Things for smart cities.