Ashwin Nikam

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EXPERIENCE:

- **Software Engineering Intern** **June 2017 - August 2017**
  Endorsify, Los Angeles CA (worked remotely)
  Worked on integration of Clarifai API to build a tool using Python for generating tags from images on Instagram and built a classifier to help select appropriate influencers from the tags.
  Worked on a project to build a data visualization dashboard tailoring the influencer marketing industry.
  Dynamic integration of Google Analytics and Heap Analytics.
  Web scraping for data related to influencer marketing.

EDUCATION:

- **Pursuing Masters of Science in Computer Science** **Anticipated Graduation Feb 2018**
  University at Buffalo (SUNY), Buffalo NY. GPA: **3.62**
  Courses - Analysis of Algorithms, Software Engineering Concepts, Information Retrieval, Computer Security, Introduction to Machine Learning, Distributed Systems, Data Intensive Computing, Data Mining and Bioinformatics.
- **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:** Java, Python, R.
- **Tools & Technologies:** Git, Solr, AWS EC2, Android Studio, Jupyter, Tableau, Hadoop.
- **Web development:** HTML, CSS, Javascript.

PROJECTS:

Supervised Classification Algorithms (Python, Data Mining and Bioinformatics) **November 2017**

- Implemented three supervised learning classifiers namely K-Nearest Neighbors, Decision Tree and Naive Bayes Classifier.
- Further implemented Random Forests and Boosting(Ada-Boost) based on my implementation of Decision Tree and analyzed the performance of all the classifiers on different types of data.

Principal Component Analysis and Clustering (Python, Data Mining and Bioinformatics) **October 2017**

- Implemented Principal Component Analysis to obtain a new reduced set of dimensions in which to represent the given data.
- Implemented HAC (Hierarchical Agglomerative Clustering) algorithm using MIN link.
- K-Means clustering using the MapReduce framework.

Simplified Amazon DynamoDB on Android (Java, Distributed Systems) **May 2017**

- Implemented a replicated key-value storage which was a simplified version of Amazon DynamoDB including Replication, Partitioning, Failure Handling and Recovery.
- The main goal was to provide linearizability and availability at the same time and handle concurrency.
- The implementation successfully performed read and write operations even under a failure and successfully recovered from failures.

Messenger with TOTAL and FIFO Ordering Guarantees (Java, Distributed Systems) **March 2017**

- Implemented the content provider for each Android emulator instance to store key-value pairs.
- Messages sent by one emulator were multi-casted to all other active emulators using TCP sockets.
- Implemented an algorithm to maintain TOTAL and FIFO ordering guarantees when messages were sent concurrently from multiple emulator instances.
- Successfully handled randomized failure of any one emulator by preserving the ordering.

Question Answering using Entity Recognition and NLP (Python, Information Retreival) **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.