

# 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** (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** (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** (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** (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** (Information Retrieval) **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.