

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 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: **3.66**
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:** Python, Java, C++, R.
- **Tools & Technologies:** Git, Apache Solr, AWS EC2, Android Studio, Jupyter, Tableau, Apache Spark.
- **Web development:** HTML, CSS, Javascript, PHP Laravel.

PROJECTS:

- **Dimensionality Reduction & Association Analysis** (Python, Data Mining) **September 2017**
 - Implemented Principal Component Analysis(PCA) to project high-dimensional data to 2 dimensions and plot this 2-dimensional data.
 - Implemented Apriori algorithm to generate frequent item-sets from gene data and generated association rules using these frequent item-sets.
- **Simplified Amazon DynamoDB on Android** (Java, Distributed Systems) **May 2017**
 - Implemented a simplified version of Amazon DynamoDB including Replication, Partitioning and Failure Handling.
 - 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.
- **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.
 - Message sent by one emulator was 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.
- **Handwritten Digits Classification** (Python, Machine Learning) **March 2017**
 - Implemented a Multilayer Perceptron Neural Network and evaluated its performance in classifying handwritten digits.
 - Then used the same network to analyze a more challenging face dataset and compared the performance of the neural network against a deep neural network using the TensorFlow library.
- **Question Answering using Entity Recognition and NLP** (Python, 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.