SHANTANU JOSHI

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EDUCATION

NEW YORK, NY — **NEW YORK UNIVERSITY, LEONARD N. STERN SCHOOL OF BUSINESS**
Sep 2013 - May 2016 — *B.S. Business, Concentration: Statistics*
B.S. Computer Science
- Graduated in 3 Years; John Stevenson Leadership & Community Building Award

PROJECT AND RESEARCH

NEW YORK, NY — **GRID SEARCH IN PYTHON**
Aug 2016 – Present
- Built a python tool that automatically fits the best classification model for a given data set on both AUC and least complexity (currently uses Logistic, kNN, and naïve-bayes)
- Working on using Spark with Scikit learn to implement a grid search with more algorithms

NEW YORK, NY — **NATURAL LANGUAGE PROCESSING OF MERGERS AND ACQUISITIONS REPORTS**
Apr 2016 – Sep 2016
- Built a news-parser for a prop trading specialist on the NYSE; results were to exported to SQL
- Wrote Python scripts to transform data into a trainable format, and trained data using Stanford's named entity recognizer with tagged data from the Automatic Content Extraction (ACE) Project

NEW YORK, NY — **BENCHMARKING THE SIEVE OF ERATOSTHENES ON NVIDIA'S PASCAL ARCHITECTURE**
Mar 2016 – Aug 2016
- Implemented the Sieve of Eratosthenes in C for parallelization with OpenMP & CUDA
- Benchmarking the program on Nvidia's new GPUs in a multi-GPU config in Linux

NEW YORK, NY — **ANALYTICS FOR THE STERN OFFICE OF STUDENT ENGAGEMENT (OSE)**
Mar 2016 – Jun 2016
- Consulted with OSE on how to utilize and analyze club activity data for student outreach
- Spearheaded the first student-run SQL Server for a faculty project; created an instance on a private server, and taught a group of students SQL and Microsoft Access to analyze data

NEW YORK, NY — **ABACUS: PYTHON BASED ATTENDANCE TRACKER**
Sep 2015– Nov 2015
- Worked with my partner on automating attendance tracking with Python that was traditionally cumbersome and was completed in Excel

NEW YORK, NY — **MACHINE LEARNING BASED VOLATILITY PREDICTOR**
Jan 2015– Mar 2015
- Used Weka & Java to fit various statistical models to a set of stock ticker data to build a volatility predicting tool using indicators like company size, market cap, etc.

EXPERIENCE

NEW YORK, NY — **S.A. TECHNOLOGIES –** *Intern, Part Time Consultant*
Jun 2016–August 2016
- Evaluated a preventative maintenance approach for a client's supply chain. Built various machine learning algorithms in Python and Weka.
- Used python to implement a program that automatically emails the company's Data Science consulting offerings. Tracked various statistics around success of the email campaigns.

May 2015–Aug 2015 — *Predictive Analytics Summer Intern*
- Used Scala to implement machine learning models and researched Spark/RDD's
- Taught co-workers on using Spark for Machine Learning and running models on a retail client's dataset for a proof of concept

NEW YORK, NY — **STERN BUSINESS ANALYTICS CLUB –** *Co-Founder & President*
Sep 2014–May 2016
- Won John Stevenson Leadership and Community Building Award
- Created 3 semesters of weekly workshops on data driven problem solving and taught students a wide range of skills from Excel Basics to RNNs in python; some of my slides are *here: bit.ly/bacdata*
- Ran weekly workshops, recruiting events, and industry introductions

NEW YORK, NY — **STERN PROGRAM FOR UNDERGRADUATE RESEARCH -** *Big Data Researcher*
Feb 2015–May 2015
- Updated a big data Hadoop cluster with shell scripts and configured Hive for analysis
- Wrote SQL queries in Hive to analyze daily NYSE data streams; linked Tableau to allow the research team to create data visualizations.

SKILLS AND INTERESTS

Languages: Fluent in Java, Python, R, Unix; Conversational in LaTex, Scala, SQL, various R & Python machine learning libraries
Interests: Building/Racing FPV Quadcopters, Scuba Diving, Longboarding, breaking Linux and compiling drivers on my computer

ADDITIONAL EXPERIENCE

SANTA CLARA, CA — **LEMELSON-MIT GRANT -** *Team Lead, Finance Manager*
May 2011– Jun 2012
- Received $10,000 grant to develop a thermoelectric generator cooled through aquatic currents
- Commended by Senator Mike Honda and San Jose City Council; presented at MIT conference

CAMBRIDGE, MA — **HARVARD LABS –** *Research Assistant*
Apr 2012–Sep 2012
- Researched the growth pattern of dendritic structures; co-authored findings published by the BioEnvironmental Polymer Society and the Frontiers at the Pharmaceutical Sciences Conference
- Automated analysis of structure's images using academic software LabView scripts