Ajay Anand

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Education

Data Science Immersive | Galvanize **|** San Francisco, CA **|** October 2015
Focused on solving real-world problems utilizing statistical analysis, machine learning, software engineering best practices, and working with data at scale.

MS Statistics | California State University – East Bay **|** June 2013
Relevant Coursework: Advanced Statistical Inference, Analysis of Variance Models, Theory and Application Regression, Probability Theory, Mathematical Statistics

BS Electrical Engineering | University of Texas – Austin **|** August 2007
Relevant Coursework: C, C++, VHDL, Assembly Code, Digital Signal Processing, Linear Algebra
Completed senior design project incorporating custom-designed printed circuit boards (PCBs) to create a DJ mixer with onboard audio effect processing.

Data Science Projects

- Developed an app which enables a user to input a query and return a verse from various major religious texts that is closest to their query utilizing natural language processing, vectorization, cosine similarity, and a Flask front-end: www.religionerweb.com
- Built an app that replaces the bad words in song lyrics with their synonyms using a random word generator built from scratch utilizing web scraping and a Flask front-end: www.github.com/skyballin/rapattack
- Studied music artist's online media profiles to predict the iTunes sales of the artist using a Random Forest Regression model. Using this information, put together a plan for how a new artist should approach their online media presence. www.github.com/skyballin/eda_examples

Technical Skills

Programming: Python (Pandas, NumPy, sckit-learn, SciPy, StatsModels), Git, C, C++, JavaScript, Plotly, Flask, Seaborn, HTML, CSS, jQuery, Angular.js
Data Engineering/ML: PostgreSQL, MongoDB, NLP, Word2Vec, Doc2Vec, NLTK, SpaCy, BeautifulSoup, AWS (EC2, S3), Spark, Hive, MapReduce, Scrapy, Neo4J, NetworkX, Recommendation Systems, PCA, KNN, Regression, Gradient Descent, Naive Bayes, SVM, NMF, SVD, K-Means, Regularization, Decision Trees, Bagging, A/B Testing

Professional Experience

Business Development Analyst | Pacific Steel Casting Company **|** Oct 2013 - June 2015
- Created models to forecast future sales opportunities and optimize scheduling of plant operations based on historical performance data.
- Performed data analysis to identify and validate new business opportunities for international manufacturing sites.

Technical Sales Analyst | Pacific Steel Casting Company **|** May 2012 - Oct 2013
- Built and implemented a cost and pricing model to achieve profitable margins.
- Responsible for development of core KPI's throughout each department to measure success and improvement.

Digital Media Analyst | Yonas Media **|** Mar 2010 - Aug 2011
- Led the online marketing strategy for 6 artists leading to a 34% increase in overall revenue
- Drove a 25% increase in marketing ROI through use of open-source tools resulting in a savings of over $10,000 annually.

Social Media Analyst | TSS Blog **|** Oct 2008 – Oct 2012
- Utilized a "money ball" technique using social media growth statistics to identify artists for bookings.
- Compared viewership to web site features in order to optimize articles and increase viewership by 200+%.
- Implemented A/B testing structure using a chi-square hypothesis test for different site configurations