ISABEL LITTON

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EDUCATION

2015-2016	**MS Analytics**	San Francisco, CA
	University of San Francisco	

2011-2015	**BS Statistics**	San Luis Obispo, CA
	California Polytechnic State University	
	Cum Laude, GPA 3.72	

PROJECTS

2015 — University of San Francisco

- Built AdaBoost function from scratch that classified cars in dashcam videos (Python, OpenCV, AWS)
- Created a RESTful web service backed by PostgreSQL that provided insight into Amazon pet supplies data (Python, AWS, PostgreSQL)
- Developed sentiment scores to investigate region stereotypes by scraping Yelp reviews (Python, PostgreSQL, R)
- Classified sentiment for 2000 movie reviews with 80% accuracy using Naïve Bayes algorithm and 3-fold cross validation (Python)

2014-2015 — California Polytechnic State University

- Predicted IMDB television ratings through sentiment analysis of Twitter data (Python, SAS, SQL)
- Produced a SAS package for automated Twitter data mining (SAS, SQL)

EXPERIENCE

2016-Present — Wikia, Data Engineering Intern

- Machine learning to automate tagging process and improve ad personalization (Python)
- Built automated data collection integrating into Facebook (Trending, Newsfeed) and Reddit (Python)

2015-2016 — City of Hope, Data Mining Intern

- Developed NLP queries to extract cancer recurrence sites within unstructured pathology reports with 82% precision and 74% recall (Linguamatics)
- Designed multivariate data visualizations for survey results (R)
- Automated results checking process to save ~2 hours per check (Python)

SKILLS

Programming:	Python, R, SAS, SQL (PostgreSQL, MySQL), NoSQL (MongoDB)
Tools:	AWS (EC2, EMR, S3), PySpark, Apache Drill
Certifications:	SAS Certified Advanced Programmer for SAS 9

PUBLICATIONS

2014-2015   **"%Tweetomatic: An Automated Approach to Batch Processing of Tweets"**
- Presented at Western Users of SAS 2014, SAS Global Forum 2015, CSU Student Research Competition 2015

2013   **"%GrabTweet: A SAS Macro to Read JSON Formatted Tweets"**
- Presented at Western Users of SAS 2013

COURSES

• machine learning • statistical consulting • A/B testing • hadoop & mapreduce • time series analysis • regression • multivariate statistics • relational databases • data acquisition