

# Ghofrane Talbi

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## Selected Experience

### Data Scientist

Data Innovation Lab @ Capital One (San Francisco, Ca.) 06/15 - Now  
Lead research team modeling for fraud problem space with class imbalance & adversaries; H2O.ai, GraphLab, SKLearn  
Deployed sub-millisecond real time model; Apache Apex  
Recommended distributed machine learning frameworks for general adoption at Capital One; H2O.ai, GraphLab, Apache Spark

### Various Technical Positions

Lawfty (San Francisco, Ca.), RevUp Software (Redwood City, Ca.),  
Perkins + Will Architecture (San Francisco, Ca.) & Lawrence Berkeley  
National Lab. (Berkeley, Ca.)

### Front End Supervisor

The Home Depot Pro (Colma, Ca.) 05/11 - 03/13  
Positions held: Cashier, Special Services Assoc., Tool Rental Assoc.  
Supervised and trained a staff of 10-30 team members

## Education

### MS, Analytics

University of San Francisco, July 2015  
Relevant Coursework: Machine Learning, Adv. Machine Learning, Data Acquisition, Exploratory Data Analysis, Relational Databases, NoSQL Databases, Linear Regression Analysis, Time Series Analysis, Intro. SAS

### BS, Physics

University of San Francisco, May 2014  
Minors: Computer Sciences, Mathematics  
Honors: University Scholar, President of PME Math Honors Society  
Relevant Coursework: Software Development, Data Structures & Algorithms, Differential Eqn.'s, Linear Algebra, Graduate Econometrics

## Personal Projects

Identified genre of Billboard Hot 100 songs using ensemble algorithm built with Support Vector Machine, Neural Network, Stochastic Gradient Boost, and Random Forest algorithms; Python, Pandas, R and Scikit-Learn

Implemented Naive Bayes text classification algorithm and trained this algorithm to correctly label 83% of movie reviews; Python, numpy and Pandas

Created database containing lyrics of Billboard Hot 100 songs since 1958; R, Python, Pandas and Beautiful Soup 4

Built a multi-threaded web scraper and search engine with web user interface; Java, MySQL and HTML5/CSS

Built resume parsing package which extracts text, finds contact details, and checks for required keywords; Python and Pandas

## Online

Hergertarian.com  
github.com/bjherger  
linkedin.com/in/bjherger  
hergertarian.wordpress.com/