

Taha Monfared

20205 Pintado, Irvine, CA, 92618 | (510) 706-0268 | tahamonfared.github.io | taha.monfared@csu.fullerton.edu

OBJECTIVE

To obtain a data science position within an advanced analytical team; where I can implement my education to find solutions to novel statistical and big data problems.

EDUCATION

M.S. Statistics, California State University, Fullerton, GPA: 3.95 2015–Expected Aug. 2017

- * Courses include Computational Statistics, Categorical Data Analysis, Bayesian Statistics, Multivariate Analysis, Applied Biostatistics
- * Conducting research on Bayesian non parametric survival analysis, focused on mean residual life function with Drichlet prior

Mater of Marketing and E-Commerce, Lulea University of Technology, Lulea, Sweden 2006–2009

B.E. Industrial Engineering, Amir-Kabir University of Technology, Tehran, Iran 2001–2006

WORK EXPERIENCE

Research/Graduate Assistant, CSU Fullerton Office of Graduate Studies Since Nov. 2015

- * Produce exploratory data analysis and predictive modeling on CSUF graduate students' educational performance for use in academic reports; focused on underrepresented ethnicities.
- * Methodologies and processes used include: Data gathering and management with google maps geocoding API, SQL, NoSQL (JSON), dplyr, and tidyr; Data cleaning with Visual Basics for Office Applications (VBA) and R; Visualization using ggplot2 in R and PivotCharts in Excel; Modeling with ordinal nonlinear regression, logistics regression, and random forest.
- * Tutor an average of 20 graduate students monthly on statistics and collaborate on their thesis research problems.

Stock Market Analyst, Tadbirgaran Investment Institute 2007–2014

- * Reported to chief financial officer.
- * Produced data gathering, data management, and portfolio management software using SQL, VBA, Access, Excel and Matlab.
- * Developed custom indicators, and automated trading systems using Equis Metastock.
- * Managed portfolios valued more than \$1M with above 150% return on investment.
- * Consulted Karafarin Bank on data integration project

HONORS AND AFFILIATIONS

American Statistical Association Since Jan. 2017

Founder and president of NSM data science student club Since Dec. 2016

Winner of non-resident tuition waiver award Since Sep. 2015

Golden Key Honor Society Since May 2014

Founding member of CSU East Bay data science group Jan. 2014–June 2015

SKILLS

- Experience with machine learning methodologies
 - * PCA, PCR, factor analysis, classification (random forest, LDA, QDA, KNN), clustering (k-means, hierarchical, mixture models), regression (linear, nonlinear, multivariate, ridge, LASSO, logistics, ordinal)
- Extensive programming experience using R, VBA, SQL, regular expressions, and APIs
 - * EM algorithms, optimization algorithms (Newton, gradient descent, secant, Fisher scoring), Monte Carlo integration, MCMC algorithms (Gibbs sampling, Metropolis-Hastings), bootstrapping, loglin models, Naïve Bayes, sentiment analysis, word cloud, web scraping
- Proficient with SAS, Python, Minitab, Microsoft Office Suite, LaTeX, Markdown, scikit-learn, Linux/bash, jekyll, Git, Github
- Familiar with Tableau, Matlab, SPSS, AMOS, Hadoop, Hive, JSON, NoSQL