Akos Furton

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EDUCATION

MS Analytics, Imperial College London

2016-2017

Courses: Machine Learning, Network Analytics, Data Management, Data Structures and Algorithms

 $\textbf{BS Mathematics and Statistics}, \ \textbf{University of Texas at Austin}$

2012-2016

BBA Business Honors and Supply Chain Management, University of Texas at Austin

EXPERIENCE

Dunnhumby, Research Analyst

Sept. 2016 – Present

- Developed application to optimize non-convex pricing models in Python and GAMS, decreasing server processing time by 30%
- Segmented customers from transactional data using multivariate analysis techniques to test product pricing strategies in an A/B testing framework
- Extended existing rules-based pricing system to include an optimization driven pricing strategy that models consumer choice behavior
- Presented to Dunnhumby senior management and stakeholders from Operations and Finance departments a 3% increase of in-stock availability by aligning prices with consumer demand

3M Corporation, Supply Chain Analyst Intern

May 2015 – Jul. 2015

- Developed an application in Python and SQL to reduce inventory at distribution centres leading to \$300,000 annual savings
- Designed interactive dashboards by cleansing data to measure KPI metrics that track product availability at warehouses over time to improve in-stock score by 3%
- Classified inventory using k-means clustering and implemented Holt-Winters and ARIMA seasonal forecasting to optimize inventory safety stock

Sanger Learning Center, Statistics Tutor

Jan. 2013 – May 2016

- Tutored calculus, statistics, and computer science for students at the University of Texas 10 hours per week in individual and group sessions
- Improved performance for up to 15 students per semester by explaining complex mathematical concepts in easy to understand terminology
- Implemented training program on navigating ethical dilemmas and led skills sessions for 50 incoming tutors

Texas 4000 for Cancer, Travel Coordinator and Rider

Oct. 2012 – Aug. 2014

- Fundraised \$5000 to support cancer research at MD Anderson Cancer Center
- Cycled 4500 miles from Austin, Texas to Anchorage, Alaska, providing donation grants to research and treatment centers
- Volunteered more than 50 hours in cancer fighting and cycling communities to spread organization's three pillared mission of Hope, Knowledge, and Charity

PROJECTS

Digit Recognition: Implemented Convolutional Neural Networks in TensorFlow and Keras to classify writing at 99.5% accuracy

Fast Food Advertising: Identified new store placement opportunities for an Italian fast food retailer to minimize cannibalization effects. Research conducted in R

Loan Feature Selection: Predicted loan default rates at 90% accuracy with boosted random forests

SKILLS

Proficient in: Python, R, Spark, Hive, SQL, Excel, GAMS, AMPL, Tableau, Unix, AWS

Libraries: Numpy, Pandas, Scikit-learn, TensorFlow, Keras **Frameworks:** A/B testing, Machine Learning, ETL, Map Reduce