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IMAD DABBURA

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Skills

PROGRAMMING LANGUAGES AND TECHNOLOGIES

Unix/Bash
Python
C/Java (Some experience)
R
SQL
PySpark
Hive
Pandas
Numpy
Scikit-learn
*Boost
Scipy
PyTorch
Flask
Mlflow
Docker
PowerBI

Awards

Abdul-Rahim Murad Scholarship

Charles McKinney Scholarship

Interesting Fact

Was born and raised in a refugee camp (where my family still resides).

Employment

Health Management Systems (HMS)
Senior Data Scientist

Irving, Texas
Nov. 2019 to Current

- Led a team of Data Scientist and Data Engineer to develop and deploy a model in Hadoop environment. Given an overpaid claim, the model predicts the likelihood of recovery. So far, the model generated $500k more revenue than the existing business processes.
- Built and deployed a model **(end-to-end)** that evaluate a claim and send a lien to third parties based on the evaluation criteria and the likelihood of recovery. The Valuation team saved $800k/year in vendor costs and is expected to contribute $1m in incremental revenue.
- Built and deployed a model **(end-to-end)** that predicts whether a claim is related to an automobile accident. The Subrogation team saved $75k/year in vendor expenses plus helped increase revenue by 10%.

Baylor Scott & White Health
Data Scientist

Dallas, Texas
Jan. 2019 to Nov. 2019

- Built a model that predicts the HCAHPS top box overall rating of hospital based on HCAHPS survey and EHR data.
- Developed a model to predict the likelihood and the average donations for inpatients. The team saw a 35% increase in revenue generated in the first quarter due to the gains in efficiency and targeting the right patients.

EBI Data Analyst II

Feb. 2017 to Jan. 2019

- Created system-wide projects' performance tracking and analytical tools, including executive dashboards that enabled a transformational shift to a data-driven culture.
- Partnered with vendors to design and implement machine learning projects such as shortening inpatients' length of stay where we were able to reduce it by 8%.

Adeptus Health Inc. (NYSE: ADPT)
Senior Analyst

Dallas, Texas
Nov. 2015 to Feb. 2017

- Identified $15 million revenue cycle improvement opportunity with root cause analytics to drive opportunity capture.
- Developed machine learning models to predict ER visits by location to improve site selection capabilities.

The Related Companies
Marketing Analyst

Dallas, Texas
Aug. 2014 to Aug. 2015

- Developed probabilistic model to predict tenant delinquency that enabled a pre-emptive engagement strategy and reduced delinquency rate by 25%.
- Performed primary research and segmentation analysis to inform media planning strategy.
- Analyzed online marketing campaigns on different platforms by measuring the effectiveness of each campaign as well as the ROI that helps us focus on strong channels.

Afak Institute
Adjunct Professor

Beirut, Lebanon
Apr. 2011 to Apr. 2012

Taught courses on Statistics and Econometrics to university-level students.

Gulfco
Marketing Analyst

Dubai, UAE
Apr. 2010 to Apr. 2011

- Created models to forecast demand resulting in reduction of out-of-stock/near-expiry products by 30%.
- Analyzed performance drivers (demographics, prices, distribution channels, & marketing outlets) to develop sales strategies and new market opportunities that increased revenues by 20%.

Education

The University of Texas at Dallas
MSc Economics 2014

Lebanese International University
BA Economics 2009

Projects

Demystifying Deep Learning/Machine Learning
Publish articles around Machine Learning and Deep Learning on Medium.