Jad Aboul Hosn

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EDUCATION

Master of Science, Computer Engineering — May 2019
Arizona State University, Tempe, AZ — *3.8 GPA*

Bachelor of Science, Computer & Communications Engineering — June 2017
American University of Beirut, Lebanon — *3.5 GPA*

EXPERIENCE

Data Scientist — June 2019 - Present
DriveTime — *Tempe, AZ*

- Quantifying customer risk by building a proprietary credit-scoring model (logistic regression) in Python using internal & credit data to determine the customers' credit worthiness before boarding any loans
- Analyzing, shaping & processing millions of credit bureau records by assessing each product separately & measuring the performance gain compared to the price tag of each data product (data pipeline)
- Designing & implementing an end-to-end automated machine learning pipeline in Python that reduces the modeling cycle from 12 to 3 months by programmatically testing different pre-processing techniques, modeling algorithms and hyper-parameter combinations (Azure Machine Learning, AutoML, Azure DevOps, CI/CD)
- Producing & maintaining a large portfolio of tutorials (Azure ML, AutoML, Python), coding practices & guidelines used for training 4 junior team members and on-boarding new employees
- Coordinating across the organization to fully utilize machine learning models to maximize ROI by collaborating with other analytical teams, data engineers, DevOps architects & Application developers

Data Science Engineer & BI Intern — June 2018 - May 2019
DriveTime — *Tempe, AZ*

- Built, tested & deployed a linear regression model to rank-order vehicle depreciation using internal inventory data to optimize vehicle buy & pricing strategies (R, SQL, SQL Server R services, Excel)
- Designed & developed a data pipeline that collects real-time production scores, monitors model performance by inspecting the PSI of each attribute and through-the-door customer population shifts and generates an automated monthly report communicated to stakeholders and management (R, SQL, SQL Server R services, Informatica)

PROJECTS

Peer-to-peer lending risk model: A logistic regression model that quantifies and predicts the probability of default within the first year on book (Python, Flask, Docker, Logistic Regression)
Sarcasm Detection in Tweets: A benchmark study comparing the performance of Naïve Bayes, SVM, Decision Trees and Logistic Regression on informal tweets for sentiment analysis (NLP)

TECHNICAL SKILLS

Languages	Python, R, SQL, Bash, d3.js, Java, C++, C#
Software Tools	Docker, GitHub, Bash, Tableau, Azure Machine Learning, AWS, Jupyter, AutoML, Snowflake, Databricks, Spark, Scala, Flask, Informatica, Azure DevOps
Machine Learning	Classification (Logistic Regression, SVM, Xgboost) and Regression (Linear, Ridge, LASSO), Survival Analysis, Reinforcement Learning, A/B testing
Relevant Courses	Statistical Machine Learning, Artificial Intelligence, Data Visualization, Big Data & Distributed Database Systems, Data Mining, Database Design

AWARDS

- One of 200 scholarship recipients selected from 15,000+ applicants to pursue a **fully-funded master's degree** at Arizona State University (2017-2019)
- **Most Innovative Final Year Design Project**: *A Miniaturized Reconfigurable UHF Antenna*, Faculty of Engineering and Architecture, American University of Beirut (June 2017)
- On the Faculty of Engineering and Architecture **Dean's Honor List**, American University of Beirut (2014-2017)

PUBLICATIONS

A Miniaturized Reconfigurable UHF Antenna July 2018
2018 IEEE International Symposium on Antennas and Propagation, Boston, MA