

Waleed A. Sial

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EDUCATION

The University of Texas at Dallas – GPA: 3.7/4.00

Dallas, Texas

Master of Science in Business Analytics

May 2020

TECHNICAL SKILLS & FRAMEWORKS

Languages/Skills: Python, SQL

Certifications: Intro to SQL, Advanced NLP with spaCy, Kaggle Course - Feature Engineering, Python for Data Science

Tools/Frameworks/Library: Scikit-learn, TensorFlow, Spark, PowerBi, spaCy, Node.js, NumPy, Pandas, Matplotlib, Jupyter Notebook, Collab, MySQL, Mongo-DB, NLTK, spaCy, genism.

Machine Learning Methods: Linear/Logistic Regression, Support Vector Machines, Decision Trees, Neural Networks, Clustering & Visualization, Feature Engineering & Selection, PCA, ICA, RCA, T-SNE, Supervised/Unsupervised Learning

PROFESSIONAL EXPERIENCE

DigitSec Inc, <https://www.digitsec.com>

Seattle, Washington

Software Security Engineering Intern

May 2019 – August 2019

- Added autonomous scan functionality using node.js, to trigger security scan with any change in code/settings.
- Developed scan dashboard module to send summarized insights, enabling security teams to make secure decisions.
- Secured product by enabling detection of vulnerabilities in JavaScript libraries by adding retire.js; OWASP tool.
- Analyzed vulnerabilities data in NoSQL to develop clustering algorithms & to classify potential vulnerabilities.

Afiniti, <https://www.afiniti.com>

Lahore, Pakistan

Data Analyst – Incident Management

November 2016 – August 2018

- Worked as a cross functional problem solver to solve production incidents for Afiniti, a D.C. based AI company.
- Queried databases in SQL & created reports using sql & VBA Scripts to show gain metrics of calls optimized by Afiniti.
- Created & automated reports using SQL to catch production impacting issues & fixed them to decrease revenue loss.
- Collaborated with internal/external teams on defining & ensuring data models for statistical models.

ACADEMIC PROJECTS

Applied Machine Learning - Energy Usage

September 2019 – December 2019

- Helped improved electric infrastructure planning by predicting electric usage & classifying high/low usage.
- Analyzed IOT based electric energy usage data, performed exploratory data analysis to generate valuable insights.
- Developed end-to-end model of linear & logistic regression from scratch using gradient descent in Python.
- Developed machine learning methods using cross-validated scores, bias-variance learning curves, gradient checkers.
- Experimented with design parameters, feature engineering/selection for SVM, Random Forests & Neural Networks.
- Improved neural networks accuracy using hyperparameter tuning methods such as Grid & random searches.

Big Data Analytics

January 2020 – May 2020

- Experimented with Pyspark, Scala & Spark SQL to retrieve, analyze & model data from different sources in Spark.

Predictive Analytics - Utility Modeling

January 2019 – May 2019

- Applied utility models in SAS to study propensity to buy in response to marketing methods such as in-store promotions, displays, discounts. Modelled sales for Coke/Pepsi & Heinz/Hunts & increased sale by up to 15 %.

Applied Econometrics & Time Series Analysis

August 2019 – December 2019

- Studied effect of marital status on sleep patterns using first differencing models to analyze time series data in Stata.

Natural Language Processing

January 2020 – May 2020

- Applied Sci-kit learn, TensorFlow, spaCy, vader & NLTK, genism for pre-processing, topic modelling & sentiment analysis.