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Hammad A. Usmani

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EDUCATION

University of Central Florida – *B.Sc. Computer Science* *December 2016*
HBX | Harvard Business School – *CORe: Credential of Readiness, Pass* *July 2017*
Udacity – *Machine Learning Engineer Nanodegree+* *October 2017*

SKILLS

Computer Science & Statistics: Algorithms, Optimization, Data Modeling, Data Analysis, UNIX, Excel
Programming Languages: Python (numPy, pandas, sklearn), R, Hadoop, Java, C++, SQL, MongoDB, JavaScript (MEAN)
Machine Learning: Supervised Learning, Unsupervised Learning, Reinforcement Learning, Deep Learning

PROJECTS

Unsupervised Learning: Creating Customer Segments – hammad93.github.io/unsupervised *October 2017*
- Analyzed a dataset containing data on various customers' annual spending amounts using Anaconda and Python.
- Calculated Principal Component Analysis, K-Means Clustering, Gaussian Mixture, biplots and cluster visuals.
- Evaluated models using silhouette coefficient with a top result of 0.4263 and clustered customers appropriately

Supervised Learning: Targeting Customer Segments – hammad93.github.io/supervised *September 2017*
- Employed several supervised algorithms to accurately model individuals' income using Anaconda and Python.
- Computed Gaussian NB, K-Neighbors, Ensemble (Bagging, AdaBoost), SVM, and Decision Tree models.
- Optimized model using grid search with a final evaluation accuracy score of 0.8660 and F-score of 0.7451

Deep Learning: TensorFlow Seq2Seq NLP *February 2017*
- Computed Seq2Seq neural network using Tensorflow by training on public datasets for conversational input.
- Led development team using the German Center of Artificial Intelligence CUDA architecture.
- Completed model after 180 hours of training time on public court records and message board data sets.

Big Data Management Tools – github.com/bdmt *April 2016*
- Developed software for administration of Hadoop, HUE, Apache Ambari, Spark, YARN, Pig, and HIVE.
- Programmed administration metrics and visualizations by utilizing Node.js, AngularJS, and ChartJS.
- Delivered tools with research and development team for University of Central Florida affiliated use

Publication in *World Multiconference on Systemics, Cybernetics and Informatics* *June 2016*
- Surveyed and sampled 507 responses and conducted regression analysis, hypothesis testing, and other metrics
- Reference: Almalki, H. M., L. Rabelo, Dr, C. David, Dr, and H. A. Usmani. "Analyzing the Existing Undergraduate Engineering Leadership Skills." *World Multiconference on Systemics, Cybernetics and Informatics 2 (2016)*: 64-67. Print.

PROFESSIONAL EXPERIENCE

Simpluris – *Data Analyst* **Orlando, FL** | *January 2017 – Present*
- Processed legal analysis for class action lawsuits and assembled SSRS reports utilizing SQL and Excel.
- Completed 116 projects as lead analyst and participated in a total of 195 cases and projects.
- Increased efficiency of geolocation parsing algorithm to from Big O(n) to Big O(log(n)).
- Developed duplication algorithm by incorporating Levenshtein Distance.

SHAMAN – *Software Engineer* **Orlando, FL** | *October 2015 – December 2016*
- Developed software on various Customer Relationship Management platforms including SalesForce and Odoo.
- Calculated reports and analytics through RapidMiner, Python, PHP, and PostgreSQL.
- Engineered prototyping boards with RFID read and write functionalities interacting with PostgreSQL in C
- Achieved National Science Foundation Innovation Corps (I-Corps) grant for big data analytics.