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EDUCATION

University of Central Florida – B.S. Computer Science December 2016
HBX | Harvard Business School – CORE: Credential of Readiness, Pass July 2017
Udacity – Machine Learning Engineer Nanodegree+ February 2018

SKILLS

Programming Languages: Python, R, Hadoop, Java, C++, SQL, MongoDB, JavaScript (MEAN), UNIX, VBA
Machine Learning: Supervised Learning, Unsupervised Learning, Reinforcement Learning, Deep Learning
Big Data: Algorithms, Data Modeling, Data Analysis, Data Streaming, Hadoop, Apache Spark, HDFS, Yarn

PROJECTS

- Deep Learning: Convolutional Neural Network – hammad93.github.io/deeplearning** December 2017
- Trained and compiled an image classifier from a custom CNN architecture and transfer learning from ResNet50.
 - Developed sequential architecture with convolutional, max pooling, and global average pooling layers.
 - Classified images with an 81.0% accuracy after 20 epochs on a p2.xlarge AWS EC2 instance on a NVIDIA K80 GPU.
- 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
- 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 *Journal on Systemics, Cybernetics and Informatics: JSCI*** June 2016
- Surveyed and sampled 507 responses and conducted regression analysis, hypothesis testing, and other metrics
 - Accomplished the best 20%-25% paper at the *World Multiconference on Systemics, Cybernetics, and Informatics*
 - Almalki, H. M., L. Rabelo, Dr, C. David, Dr, and H. A. Usmani. "Analyzing the Existing Undergraduate Engineering Leadership Skills." *Journal on Systemics, Cybernetics and Informatics: JSCI* (2016): vol. 14, pp. 35-39

PROFESSIONAL EXPERIENCE

- Simpluris – Data Analyst** Orlando, FL | January 2017 – Present
- Completed 183 ETL data projects as lead data analyst and collaborated in more than 200 cases and projects.
 - Processed and calculated analysis for class action lawsuits and assembled SSRS reports utilizing SQL and Excel.
 - Increased efficiency by 97% of geolocation parsing algorithm from Big O(n) to Big O(log(n)) in Python PySpark.
 - Developed duplication detection algorithm by incorporating Levenshtein Distance in Python PySpark.
- 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 and Tableau visualizations.
 - Engineered prototyping boards with RFID read and write functionalities interacting with PostgreSQL in C
 - Achieved multiple National Science Foundation Innovation Corps (I-Corps) grants for IoT and big data analytics.