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Yeriko G. Vargas

**Professional Summary**

Data Scientist with statistical modeling background and supervised and unsupervised Machine Learning methods. Over 6 years of experience using R, Python, SAS. Great communication skills and bilingual profile.

**Professional Experience**

**FORD |**Dearborn, MI Mar 2022 – Oct 2022

*Lead Data Scientist (contract)*

* Managed, manipulated, and analyzed big data from CVDOS data base which captured more data in the last 2 years compared to previous 50 years count using python to fulfill internal client data requirements
* Acted as an expert transforming, merging, and visualizing data sets using python and internal AWS Sage maker services with Jupiter notebooks to send statistics reports and updates daily
* Collaborated with engineers and project managers to build solution with data for recurrent issues by Machine Learning techniques to help find car defects using Cluster Analysis and PCA methodology
* Automatized internal process to transfer live data and statistics taken from ECUs & diagnostics to internal customers using python pulling data with SQL through Hadoop ecosystem led to decrease human error

**Soothsayer Analytics |** Livonia, MI May 2021 – Mar 2022*Machine Learning Researcher (full time)*

* Researched Machine Learning methods to be utilized in a series of fraud detection, costumer segmentation, and customer service automation by finding methodology and useful python functions
* Performed complex data mining techniques to preprocess data outputs from ML models and plot them against original variables to find fraudulent shops using Plotly and Sklearn python packages
* Used SHAP package in python to visualize and modify ML models’ weights of independent variables and increase accuracy when predicting for customer dissatisfactions through Random Forest models
* Find anomalies within service shops to find fraudulent activity among many 500 locations with ML methods and visualize anomalies via Tableau scatter plots, 3d plots, matplotlib, ggplot2 and Power BI

**Fiat Chrysler Automotive |**Auburn Hills, MIMay 2019 – Jan 2020

*Deep Learning Specialist (contract)*

* Assembled Deep Learning models to forecast the most profitable configurations using R-Keras and Python packages such as pandas, Sklearn, NumPy and SHAP for validation purposes
* Constructed different AI models testing metrics among different accuracies, number of hidden layers, Loss function, Optimizer, number of epochs and batch sizes
* Built analytical solutions by optimizing for profit and discover ways to classify make, model and car body-parts leading to adjust the production of a well-known car brand using a quarter-million data set
* Applied Neural Network methods to solve automotive storage optimization problem using python leading to understandings such as 95% of the whole car sales were from 11% of configurations solving storage problem as I cornered configurations to be eliminated from car production saving millions of dollars

**Education**

**Master of Science in Applied Statistics |** *Oakland University,* Auburn Hills, MIMay 2020

**Bachelor of Science in Applied Statistics |** *Oakland University,*Auburn Hills, MIApr 2017