|  |  |
| --- | --- |
| Donald Gehrman | Donald.Gehrman@outlook.com |

Summary

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Professional qualified **Data** **Scientist** with over 7 years of experience on **Data Science** and finance analyst in **Defense** and **Telecom** Domain. Designing and developing various machine learning frameworks using Python, **R**, and **sql**  Hands-on experience in **Machine Learning** algorithms such as Linear Regression, GLM, CART  Experienced with **Python,** SQL, R.  Proficient with supervised / unsupervised learning, predictive analysis using linear, polynomial regression, with ridge, lasso, Elastic Net, PCA.  Proficient in Classification and Clustering analysis by using logistic regression, K-Nearest-Neighbors, **Decision-Trees**-and-Random-Forests, SVM, Neural Network and K-means.  Experience with GAMS/CPLEX, **Gurobi**.  Working experience in Statistical Analysis and Testing including Hypothesis test, Anova, Survival Analysis, Longitudinal Analysis, Experiment Design and Sample Determination and A/B test. Working experience in version control tools such as Git 2.X to coordinate work on file with multiple team members.  Rich Experience in managing entire **data science** project life cycle and involved in all phases, including data extraction, data cleaning, statistical modeling and data visualization, with large datasets of structured and unstructured data.  Good team player and quick-learner; highly self-motivated person with good communication and interpersonal skills.  Tools   |  | | --- | | **Python** – (Pandas, SeaBorn, Scikit, NumPy, SciPy, SQLAlchemny, NLTK, TensorFlow, matplotlib) | | **R** – (forecast, gdata, ggplot2, ggmap, Mass, randomForest, stats, spatiall, dplyr, jsonlite, plyr, curl) | | **Shell Scripting**  **Machine Learning Algorithms**: Analytic Tools  Linear regression, SVM, KNN, Naive Bayes, Anaconda 4.0 / 2.X (Jupyter Notebook, Logistic regression, LDA/QDA, SVM, CART,), R 2.15 / 3.0 (Reshape, ggplot2, Random Forest, Boosting, K-means clustering, Dlpr, Car, Mass and Lme4),  Hierarchical clustering, Excel 2010 / 2013  **Machine Learning and Deep Learning Techniques**: Trees, Bayes Model, SVM, Ensemble Methods, Neural Networks, RNN, CNN, Ensemble SVM, Majority voting, Linear models, Classification, Regression, Logistic Regression, Clustering, Kernel methods, Dimension reduction,  **Relational Database: Data Visualization:** MySQL 5.0, Oracle 11g / 12c, MS SQL Tableau 8.0 /9.2 / 10.0, D3.js 3.X / 4.X, Server 2008 / 2012R-ggplot2, Python-Matplotlib  **Programming Languages:** Python, R, SQL, UNIX, Tensor flow. |   Employment History   |  |  | | --- | --- | |  | 2017 – Current: **Data scientist** , Highstone Analysis, Monterey CA, USA  Developing **machine learning** and deep learning tools to provide industrial solutions in agriculture and marketing  Designing and developing various **machine learning** frameworks using **R**.  Implemented a project using python, **skit-learn**, **Numpy,** Scipy and UNIX for detecting handwritten digits using artificial neural networks (Natural Language Processing) and convolutional neural networks.  **Marketing Analyzing of Cable Television and Internet Providers**  Explored the factors of subscription and cancellation attitude of clients  Developed classification model to make prediction whether the client will cancel the service or not.  Handled imbalance datasets with multiclass classification.  **Early disease detection on Grape**  Developing grape disease detection system on grapevine images by using Convolutional Neural Networks | |  | 2015 – 2016: **Operations research**/**Project scientist** Naval Post Graduate School, Monterey CA, USA  Engaged in multiple projects related to **Data Analysis**, Optimization and Simulation & Modeling in coordination with the US military personnel and other international officers.  Completed many projects in **R and Python** programming languages by using linear, logistic regression, supervised learning and other advance data analysis technique such as clustering, principle components, time series, spatial analysis etc.  **Optimizing locations of US Navy Recruiting Stations**  Developed linear mathematical model to ensure the optimality of the recruiting stations and recruiting effort.  Implemented the model in Algebraic Modeling Language, GAMS.  Implemented analysis tools in R and Python by using **logistic regression and data visualization.**  Utilized SQL to extract data from **SQL Server 11.0** to prepare data for analysis.  Analyzed and tested the model in San Francisco Bay area. | |  | 2011 – 2015: **Data and Finance Analyst**  Turkish naval command, **Kocaeli – Turkey**  Used **Python 2.7** to apply time series models, clustering algorithm and other data mining methods to explore the fast growth opportunities of our clients.  Enhanced customer buying experience using **Machine learning, R, python and SQL**  Based on the **data** of clients and traffic, designed comprehensive analysis to optimize products and explored the strengths and weaknesses of products.  Built time series models to use budget forecasting.  Developed risk assessment models by using **Decision Trees and Analytic Hierarchy Process.**  Experienced in solving logistic/inventory/transportation problems related to naval operations, optimized these problems by implementing linear/non-linear models in Excel`s Open Solver, Macros, and GAMS.  Developed **machine learning** algorithms in **Python and R** to provide decision support for commanders, Predicted the best parameters for the live fire exercises.  Used **Python, R, Excel/VBA,** Open Solver for advanced analysis,  Contributed to planning stages of National, NATO and UN peace keeping military exercises, conducted cost analysis and data analysis on the results of these exercises by using **Excel, SQL and R**. | |  |  | |  |  | |  |  | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |