BENHUR TEDROS

DATA SCIENTIST

SUMMARY

- Data Scientist/Analyst or related mid-level opportunity to apply machine learning and statistical skills to analyze big dataset including future predictions
- More than 6 years experience in the oil/gas exploration industry
- Over 4 years of pore pressure prediction analysis from offset well and real-time drilling data
- Practical knowledge on data Scientist Toolbox, getting and cleaning data, exploratory data analysis, regression models, reproducible research, statistical reference and machine learning algorithms such as supervised [SVM, Naive Bayes, Random Forest, Decision tree...] and unsupervised [K-Means clustering, Affinity Propagation, DBSCAN...] learning
- Familiar with statistical analysis and predictive modeling with basic knowledge of SQL
- Competent ability to develop hypothesis and test them
- Practical knowledge Python and R libraries, and Spark ; Familiar in BI visualization tools
- Familiar with SQL query writing and connecting databases to/from Java platform
- Two years of experience on geospatial analysis, ArcGIS and multispectral image algorithms
- Excellent verbal and written communication skills with advanced computer skills

CONTACT

benhurtedros02@gmail.com
713-859-8352
Houston, TX
https://www.linkedin.com/in/benhur-tedros-18821428/
https://github.com/Bengigna/Data-Science-Career-Track

EDUCATION

Data Science
Springboard 2017

Data Science Specialization
John Hopkins University (Coursera) 2016

Geology (Msc) and Geospatial Technology
Bowling Green State University 2011

Geology (Bsc)
University of Asmara 2002

EMPLOYMENT

Geopressure Data Analyst — Houston, TX
Berger Geoscience, LLC — Jun 2013 to Apr 2017

- Analyzed pore pressure related data of deep water oil/gas wells of Gulf of Mexico in real-time
- Predicted pore pressure in real-time from offset wells best fitted models
- Accomplished exploratory data analysis work on pore pressure-fracture gradient data (PPFG)
- Analyzed PWD data to detect any anomaly in downhole pressure using Excel Macros

Wellsite Geologist and Geosteering Data Analyst — Tulsa, OK
Horizon Well Logging, LLC — Feb 2011 to May 2013

- Analyzed survey and log data to land horizontal wells into target zone
- Reviewed and evaluating all aspects of wireline open-hole logging data on site
- Correlated real-time mudlogs and gamma/resisitivity logs with offset well data
- Communicated daily geological drilling information/geosteering updates with an operation geologist

Research and Teaching Assistant — Bowling Green, OH
Bowling Green State University — Jan 2009 to Feb 2011

- Applied LandSat based reflectance algorithms to map contaminant sludge concentration
- Created Modis data based algorithms to map the concentration of toxic cyanobacteria in Great Lakes
- Predicted possible gold sites using algorithms based on ASTER spectral reflectance band ratio data
- Analyzed remote sensing and geographic information systems (GIS) related data for class projects

PROJECTS

Predicting Monthly Electricity Price of Residential Houses in the United States [Time-Series Analysis] — Nov 2017 to Current

- Wrangled and cleaned the data, and performed exploratory data analysis
- Set up test harness and utilize ARIMA models for prediction
- Conduct model testing and evaluation

Finding Unique Patterns in Dialysis Facilities with Patients' Data using unsupervised learning algorithms — Jun 2017 to Oct 2017

- Carried out data wrangling and cleaning, and applied feature selection engineering
- Did exploratory data analysis and inferential statistics, and standardized the features
- Utilized unsupervised learning algorithms such as KMeans for model fitting and clustering
- Did PCA to reduce the dimensionality of the features for data visualization, and evaluated the model using Silhouette score

Machine Learning for supervised and unsupervised related projects — Jul 2017 to Sep 2017

- Applied different typed of supervised learning algorithms for different datasets.
- Applied the different types of clustering algorithms
- Evaluated the performance of each clustering algorithms and selected the model with good score

Inferential Statistics based Analysis — Jul 2017 to Jul 2017

- Applied statistical analysis for three different dataset
- Developed hypothesis for each dataset and tested them

SQL Analytics: Investigating a Drop in User Engagement dashboards — Jun 2017 to Jun 2017

- Set up different possible hypothesis for the problem
- Applied SQL analytics to test the hypothesis, and identified the possible problem

Analysis of copper concentration using reflectance band ratio & decision tree — Oct 2010 to Dec 2010

- Cleaning the data and did exploratory data analysis using Excel Macros
- Utilized decision tree algorithm to identify the influential spectral reflectance bands using R
- Did PCA to reduce the dimensional space and applied spectral band ratio of ASTER satellite of the area
- Analyzed and correlated the results from decision tree and spectral band ratio, which were very good fit

SKILLS

PROGRAMMING AND SOFTWARE SKILLS:
python (including packages such as NumPy, scikit-learn and Pandas ; ggplot2,matplotlib, Bokeh, D3.js, PySpark), R (caret package), Machine Learning, MySQL, Java, Visual Basic, BI visualization tools, Microsoft offices, ArcGIS, ERMapper, SES, Drillworks Predict