Guangqiang Lu

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EXPERTISE

– Data and Quantitative Analysis	– Big Data Queries
– Model Analytics	– Data Mining and Visualization Tools
– Predictive Modeling	– Machine Learning Algorithms
– Data-Driven Prediction	– Research and Reports

EXPERIENCE

Accenture Dalian(Third party solution provided company)
Data Engineer: 2018.10 to Present   NewIT Big Data departure

– AutoML framework: Based on TensorFlow, PySpark, Sklearn to build **auto training, evaluating step** to implement Classification, Regression, Clustering, Recommendation to get sub-best model(in process).
– MultiOutput Regression model: Use multioutput RFR to predict next 7 days volume based on Ferror data, **RMSE: 13.01**(mean: 12.90)

Weishenma Tec Dalian(Providing Tech to small bank for Risk Contral)
Algorithm Engineer: 2017.09 to 2018.08 Big Data departure
I use Spark, TensorFlow, Keras, scikit-learn, etc. libaries to complete machine learning and deep learning algorithms analysis and modeling. From feature engineering, model building, model evaluation, model analysis and model application **independently**.

– User credit model: Use collaborative filtering ALS algorithm to recommend the completion of the user implicit variables, the score of 51 classes for **Multi-Label** using Stacked LSTM algorithm to achieve accuracy**: 98.87%.**
– Taobao order classification model: Apply NLP algorithms for data processing such as TF-IDF and Word2Vec, and use LSTM, CNN, ResNet, Wide & Deep algorithms modeling and achieve parametric comparison, finally use ResNet to achieve accuracy**: 92.20%.**
– UnionPay-Yidun users scoring model: Spark Streaming **real-time** scoring.
– Personal credit scoring model: Developing the SMOTE algorithm independently based on the problem of data volume imbalance and the sample generation algorithm based on the negative sample, AUC is increased by **31.15%** and KS is increased by **65.71%.**
– Asset-end credit scoring model: Using XGBoost and Spark to build the model, the model KS value: **0.44.**

Neusoft Dalian(Third party solution provided company)
Algorithm Engineer: 2016.07 to 2017.02 Big Data departure
I use Spark and Hadoop ecosystems related technologies to build big data machine learning models.

– Dalian University of Technology teachers clustering model: Use KMeans to cluster the population feature variables, the clustering accuracy: **93.00%;**
– Liaoning Unicom user gender classification model: Use logistic regression+PCA, random forest and naive Bayes algorithm modeling, tuning and cross-validation, accuracy: **73.50%;**
– Jiangxi Unicom monthly income forecast model: Use BP neural network for Jiangxi Unicom monthly income forecast, RMSE: **1.52**
– Monitoring video traffic statistics model: Use CNN and combined with SVM for video recruitment traffic statistics, the accuracy: **85.10%;**

Zhongkeruan Tech Dalian(Third party solution provided company)
Java Engineer: 2015.11 to 2016.06 Bank and Insurance departure

Use Java to develop and test Bainian Life Core Business System, add and modify business functions on core system, skillfully apply SQL for Oracle database DML, optimize SQL and multi-threaded application.

EDUCATION

Northeasten University | Bachelor Degree in Mathematics

SKILLS

Machine Learning Framework: TensorFlow, scikit-learn, Spark MLlib, Keras, Caffe, MXNet, PyTorch

Big Data Processing: PySpark, Spark SQL, Spark Streaming, Hive, HBase, Impala, Hadoop

Languages: Python, Scala and Java

Algorithms: LR, SVM, Decision Tree, Random Forest, GBDT, Naïve Bayes, KMeans, DNN, CNN, LSTM etc.

Competitions: Participated in **Kaggle Machine Learning** Contest **3 times** (Top 7%, Top 9% and Top 14%)

Others: GitHub open source project **Scikit-Plot contributors**(link: https://github.com/reiinakano/scikit-plot)