YINGCHAO JI

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- **Scala (familiar) > SparkDataframe/SparkSql > SQL> Python >Java > K8s+MongoDB+Docker+Kafka（knowing)**
- **Business fluency in English and native in Chinese**

Education

University of Skovde(Sweden) Data Science(Master) 2019.09-2021.04
Major courses: Scala，Data Mining(Python, Classification, Clustering,Regression,Reinforcement learning, Recommender System, Anomaly Detection，NLP)，AI(Agents and Environments, Searching Algorithms，Knowledge Representation and Reasoning, Linear Regression, Machine Learning, Probabilities），Big Data(spark，Deep Leaning，ELK)，Visualization（TIBCO）
University of Boras（Sweden） Business Administration（bachelor）2017.09-2018.07
Major Courses: e-commerce, Intermediate Financial Accounting, Business Communication, International business
Shandong Jiaotong University Informatics 2014.06-2017.09 GPA: 3.29/4.0
Major Courses: SQL,C, Java, Html, ERP, Data Structure, advanced math

Working Experiences

Wisers Information Limited (Public Opinion Processing) AI productization(Intern) 2020.01-now Beijing China
- Reimplement the python version of the spammer detect algorithm based on spark dataframe/sql to achieve the same final result as python version.
- Reimplemented the python version of the article provenance detection algorithm using scala to achieve the same final result as python version.
- Use python and scala to compare the results of the same algorithm implemented in different programming languages by parsing json to ensure that the final result is achieved consistently.
- Participate in the development of event timeline detection algorithm based on spark dataframe and Scala
- Using pyspark to build test datasets with multiple cases for API testing (e.g. empty fields, special characters, expressions, etc.) and save it in Mongo.
- Using JAVA to modify the original test segmentation API to forward text sementation results from other APIs and align the data structure.
- Using a python package called locust to retrieve data from Kafka and do API testing in K8S.
- Use python to visualize and compare the text segmentation results of the two APIs (the parts with different word splitting are marked in red and are output to excle with other word segments)
- Using the framework of JEP to receive data re-prepossessing from python in Java for further model inference.
- Investigate the framework of Seldon-Core to infer models.

NA-KD(E-commerce) Stock Manager Assistant 2018.09-2019.6 Gothenburg Sweden
- Responsible for the development of VBA for Excel data processing, making report templates according to requirements, data changes and summary, accurate insertion of renderings, and promoting the automation of data reports.

Projects during master degree study

Data structure development with Scala:
- Loading and handling datasets
- Computation of statistics, distance/dissimilarity matrix of the dataset
- Plot a histogram for a given feature

Machine learning Projects using Python
- Recommender system
- Implementing several algorithms in item-based collaborative filtering and Matrix factorization on MovieLens dateset and finding out KNNBaseline and singular value decomposition(svd) can produce higher model evaluation
- K-means algorithm implement without using the Kmean's library
- Using original methods to implement the procedure of K-means algorithm on Iris dataset. "elbow" method is used to find a suitable K.

Deep Learning using Python
- Facial Expression Recognition with CNN in Keras:
- Using Convolutional Neural Network (CNN) train 35887 grey images with emotions labels, and the accuracy of the model on the training set is 91.78%.

Academic of Publication (Thesis)

Private Labels in China - Case Studies of RT-Mart and ICA ☞ https://bit.ly/3fGusKv
This paper used SPSS to analyze the different views of young consumers in two countries on private brands from the perspective of consumers.
Explainable AI methods for credit card fraud detection: Evaluation of LIME and SHAP through a User Study ☞ https://bit.ly/3rUmxCJ
Conducted a quantitative study with the help of bank staff to compare two tools(SHAP and LIME) for visual interpretation of credit card fraud model prediction results from perspective of explainability

Other experiences (part-time job)

Sale assistant at Michael Kors in Swden 2018.09-2019.6 Gothenburg Sweden
- Ensure high levels of customer satisfaction through excellent sales service