E-mail: junyq2022@163.com GitTub Repo: https://github.com/MichaelQiu2000?tab=repositories

Leetcode-CN Profile (Python, SQL): https://leetcode.cn/u/michael-wz/

Please note that all text underlined contains a hyperlink to the code in my GitHub repository

Python



Artificial Intelligence Engineer (Full-time Job)

Develop an automatic root cause analysis system combining technology with the insight of engineers to identify the root cause of non-conforming products (Data ETL & Modeling)

Question Answering Bot



This coursework constructs a questionanswering system about wealth investment products in the cloud

Terrorists Recognition



This coursework employs multiple tree models to recognize attack planners. This project is my debut in DS and contains a complete procedure of data modeling

Location Recommendation



This coursework constructs three basic recommendation models and then obtains a comprehensive recommendation model

Sentiment-based **Quantitative Trading**



This coursework builds a sentiment-based quantitative trading model by employing various features and crawler tools

Patent Data Empirical Analysis



This project is a silver medal solution in

This coursework crawls the data from intellectual property official media and makes empirical analysis

Kaggle Competition: American Express Default Prediction, and uses LightGBM as the main model

Soft Skills

Leadership

- Successfully led 3 teams to complete the programming coursework on time with high quality
- As the class monitor, organized many class meetings and had good relationships with teachers and classmates

Teamwork

Name: Junyuan Qiu

 Familiar with Agile software development, and used Scrum, an agile development framework, in two programming coursework to develop solutions effectively with teammates

Other Skills

Scala

• Worked as a big data engineer in HSBC Technology China for 6 months, using Scala and Spark to complete data ETL tasks and carrying out Spark performance tuning

C++

 Used C++ to complete the homework of the Data Structures and Algorithms course and a corresponding coursework

- Applied R to complete the empirical analysis in my graduation thesis
- Utilized R to finish the homework of the Machine Learning course and the Econometrics course

Java

 Used Java to complete the homework of the Java Programming course and the Blockchain Technology course

智能小投 2021-06-29 11:20:58

你好,我是智能问答机器人小投,请输入你想查询的问题。 (PS:使用前请点击右上角的按钮查看并认真阅读提问标准)

Project Show: Machine Learning Coursework

An End-to-end ML Solution Question Answering Bot

This project constructs a question-answering system about wealth management products in the cloud, utilizing the technology of knowledge graph and natural language processing.

Project Background

To reduce labor costs and improve the customer experience, the wealth management team in HSBC wants to build a question answering system to help their clients quickly get information on wealth management products.



Data Preparation

- Use Python to download public brochure PDF files of wealth management products
- Extract information in the tables from PDF files
- Save information to Neo4j to build the knowledge graph



Natural Language Processing

- Apply regular expression and semantic analysis to find the name of the products and the attributes from the input question
- Utilize Turing API to chat with clients if their questions are not about products



Front and Back End

- The front end is designed with Vue framework and Element UI component library
- The back end is constructed with Django, connecting MySQL and Neo4j databases