Xiaoyao Zhong

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Education

East China Normal University Sep. 2018 – Jun. 2022(Expected)
Bachelor of Engineering in Software, Software Engineering Institute *Shanghai, China*
Overall GPA: 3.68 / 4.0 **Integrated Ranking:** 11 / 186 **Major GPA:** 3.87 / 4.0
Awards: National Scholarship for Encouragement. 2020
The First Class Scholarship. 2020
East China Normal University outstanding student. 2020
Mathematical Contest in Modeling Honorable Mention. 2020

Experience

Nomura Information Technology (Shanghai) Co., Ltd. Jul. 2021 – Aug. 2021
Summer Intern *Shanghai, China*

- Participate in project All-Service-In-One Bot, which implements a chat bot for users' to register, manage, distribute and invoke all their services by talking to the bot.
- Support customized service by using proxy template. Users can customize their service request type, data display type, request authorization and so on.
- Support automatically maintain and register service by bot. We use Poetry to Create Virtual Environment, Supervisor to manage all the services maintained by bot, FastAPI as our framework for REST.
- Make users' experience improvement. By using fuzzy mapping to correct the wrong commands or map the confused commands.

Projects

Intelligent Course Scheduling System in Colleges and Universities Oct. 2019 – Oct. 2020
Project Leader, Back-end Developer, East China Normal University *Shanghai, China*

- The purpose of this project is to optimize the course scheduling process of the college, and to generate a humanized timetable that meets the teacher preferences and curriculum association constraints in the form of web.
- I am responsible for the back-end architecture,database management and participate in the system design.
- We use SpringBoot as framework ,MyBatis as DAO layer ORM and MySQL as database .

A Market Forecasting Model Based on Profile and Time Series Feb. 2020 – Feb. 2020
Responsible for Algorithm and Modeling, East China Normal University *Shanghai, China*

- The project analyzes 30k + product reviews and ratings of hair dryer, microwave oven and pacifier in Amazon mall to model and predict the market preference for these three products.
- Based on the idea of word2vec, the high-frequency vocabulary is extracted and the word vector is extracted to mine the market demand. PCA is also used to reduce dimensionality and decorrelation .
- Naive Bayes a is used to analyze the star rating according to the comment text, and the posteriori probability words are extracted as the excellent features of the product.

Propagation model of COVID-19 in CA simulation based on SEIR Apr. 2020 – Apr. 2020
Responsible for Model Implementation, East China Normal University *Shanghai, China*

- CA (Cellular Automata) is used to model the flow of epidemic population, and a multi City CA network model is established.
- Improve SEIR model, by adding "isolators", "hospitalized population" and other ways to adjust the model to make it more close to the actual spread of COVID-19.
- Compared with the real transmission data, the parameters are calibrated, and the epidemic policy and regional virus performance are further analyzed based on the calibrated results.

Technical Skills

Related Courses: Operating System Concept, Computer Network, Data Structure and Algorithm
Programing Languages: Java, Python, C