Weida Zhu

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Education

Shanghai University of Science and Technology

Achieved degree:Bachelor of Engineering.(2011-2015)

University of Delaware

Processing degree: Master of Science in Electrical and Computer Engineering(2015-2017 and I will get the diploma on June 2017)

Computer Skills: python, Spark programming(pyspark), Docker, C, C#, Mysql, sqlite,Database Design and optimization, linux os, php,javascript,html,css

- Distributed computing: Familiar with using pyspark to preprocess data and using MLIB to build statistical model.
- Machine learning: Familiar with linear regression, gradient descent, decision tree, AR model, wiener filter. Solid math foundation and familiar with different kinds of statistical models.

Learning classes in my graduate program: Artificial Intelligence, Statistical learning, Big data processing, Database system, Computer Network, Software Requirement Engineering, High Performance Computing with Hardware Commodity, Web application security

INTERNSHIP EXPERIENCES

Wonders Information (Shanghai) Co., Ltd   Jan.2015-Feb. 2015

- Help manager query different forms of data from the database system.
- Using C# under visual studio made an internal teaching aids system.

Some Projects:

1. Using pyspark to preprocess and analyze NHANES data and made a prototype to predict the nutrient intake based on the demographic data.
2. Using forward chaining and backward chaining algorithm complete a knowledge system for computer breakdown diagnosis: collect information on the internet then instantiate the observable variable and proceed to triggering 50 appropriate rules for computer breakdown diagnosis knowledge diagnosis system then use python finish implementing.
3. Design a database for stackoverflow.com, a large question-and-answer website for programming. Draw an E-R diagram to capture all the requirements then translate it to relational model and create them as tables in mysql. Import big sets of data into the database then write and optimize the query to capture some complex scenarios of requirements.
4. Built a website to grab the content of tweets and using Markov Chain algorithm to randomly edit the contents of it.(using php and javascript and html in front end and C++,python in backend).

Competition EXPERIENCE

China Undergraduate Mathematical Contest in Modeling   Oct.2014

Team leader, Developer

- Came up with solutions on the soft landing of Chang-e 3 in the moon's reserve area by designing landing orbit and control strategy
- Through the establishment of space rectangular coordinate system, determined the perilune and apolune location of landing orbit.
- Built the two-body model in the polar coordinate, confirmed the orbit of main speed reduction, and accomplished the optimal model by controlling the fuel consumption

HONORS & AWARDS

- Third prize of China Undergraduate Mathematical Contest in Modeling   2014