Ji Qi

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I am a hard-working programmer with a master's degree in computer science. I have an aptitude for application development, and data science. I am a creative problem-solver who is looking to join a strong technical group that is working to address interesting, real-world problems.

TECHNOLOGY SKILLS

PYTHON, NUMPY, SCIPY, PANDAS, MATPLOTLIB, SEABORN EXCEL| SCRAPY, BEAUTIFULSOUP

SCIKIT-LEARN, TENSORFLOW, MATLAB, H2O | SPARK, HADOOP

HTML5, CSS, BOOTSTRAP, JAVASCRIPT, JQUERY, XML, CHART.JS, E-CHART | DJANGO, JAVA

POSTGRESQL MYSQL, SQLITE | GIT, LINUX, AMAZON WEB SERVICE, GOOGLE CLOUD PLATFORM

PROFESSIONAL EXPERIENCES

Data Analyst | GroundSpeed Analytics | 11-2018

- Used advanced tool process data, cleaning, mining.
- Quality assurance for the insurance data report.
- Design data structure base on project

Data Science Intern | RXA | 06-2018 – 10-2018

- Clean and troubleshoot existing python script
- Write python script for DOMO ETL dataflow
- Provide maintenance support for the RXA reporting platform
- Analyzed and processed data sets using advanced querying, visualization and analytics tools.
- Developed intricate algorithms based on statistical analysis and predictive data modeling.

IT Support Staff | IT Department Concordia University | 09-2015 – 12-2017

- Diagnose and fix computer and networking problems for students and employees.
- Answer help desk phone calls, record issues reported, and take appropriate action.
- Set up audio and visual equipment for classes and events.

EDUCATION

Master of Computer Science | Concordia University Ann Arbor 2015 - 2017

Software Design and Development	Data Management and Security
Computing Infrastructure	Theoretical of Computer Science
Human Aspects of Computing Systems	Research in Computer Science

Bachelor of Packaging Engineering | Beijing Institute of Graphic Communication 2010 – 2014

Projects

Movie Recommender Systems

Used the MovieLens dataset containing 100k movie ratings from 943 users and a selection of 1682 movies. Prepared the dataset imputation and features extraction.

Used user-item filtering and item-item filtering of Memory-Based Collaborative Filtering and SVD of Model-Based Collaborative Filtering made the prediction.

Used Sklearn as machine learning library, train test split data. Used RMSE to evaluate the accuracy.

Piston News sentiment analysis

Used python Scrapy BeautifulSoup,nltk and other libraries, crawled Piston news with related labels from NBA official website, output to the database as Json format data. Pass the keywords, sentiment analysis functions on news article, return a report table.

Customer Churn Prediction

Used the bank customer dataset with features as account type, income, loan, rates, etc. Prepared the data by missing data imputation and feature extraction.

Performed exploratory data analysis by feature pivoting and visualization with Matplotlib and Seaborn.

Trained it in Ensemble Classification Learning Method, Random Forest and Gradient Boosting the with Sklearn and use classification report, confusion matrix to choose the best model.

Tuned the hyperparameters value and improved accuracy.

Weather Prediction

Used 2016 Seattle, WA weather dataset with features as date, max temp, min temp, average etc. Encoding the date to numerical value. Prepared the data by missing data imputation and feature extraction.

Establish the historical max temperature averages as the baseline to compare with the prediction.

Trained it in Ensemble Regression Learning Method with Sklearn. Compare the variable importances and performed exploratory data analysis pivoting and visualization

Social Media Clone

Developed a live Social Media Clone Website offering multiple functions: user create. post content, comment other posts, create a topic group, post in groups, etc.

Used Python, Django, JavaScript, jQuery, HTML5, CSS and template languages develop the functions and interface. Gained experience using Web Services and API's in python, understanding of HTTP methods, RESTful architecture.