Meng (Megan) Li

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EMPLOYMENT

LendingCar.com   12/2017 - Present
Software Engineer, Data
- Built and maintained data pipelines for data ETL to data warehouse using Airflow
- Created and maintained automatic data dashboard using Google Data Studio
- Built a vehicle rental price calculator serverless app as an internal tool using Flask
- Established data input operation workflow by implementing backend customer and booking API

PROJECTS

Customer Churn Prediction using Spark MLLib on Amazon EMR   09/2018
- Transformed the log dataset, extracted, normalized, standardized and scaled features for learning
- Used Spark machine learning library to build machine learning pipeline on Jupyter notebook
- Trained the Spark machine learning model with 12 GB customer log dataset on Amazon EMR
- Applied the Spark model to prediction dataset for validation, achieved ~80% classification accuracy

Direct Mail Campaign Analysis at Edward Jones using Scikit-Learn   02/2017-05/2017
- Developed python scripts to wrangle and cleanse the client information dataset with 120,000 entries
- Built learning models for prediction using Python scikit-learn; achieved an average of 75% specificity
- Composed the presentation and data visualization report using Matplotlib and Tableau
- Final model reduced the mailing expenses of Edward Jones by $330 per 1,000 customers

Sentiment Analysis of Reviews using Hadoop Hive   12/2016-01/2017
- Extracted, transformed and loaded students' reviews dataset using Python and HiveQL
- Utilized N-Gram library with Python Hive UDF for sentiment analysis in Hadoop Hive
- Analyze the student reviews dataset on Hive, achieved 70% sentiment classification accuracy

Movie Information and Recommendation Website using Django   11/2016-12/2016
- Built a Django-based movie discussion website with user and content control function
- Scraped recent movies list from IMDb using Python; imported the list to MySQL database
- Implemented collaborative filtering algorithm to provide personalized recommendations for users

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EDUCATION

Washington University in St. Louis   01/2016-05/2017
Master of Science in Information Systems, GPA: 3.70/4.00

Shanghai University   09/2011-06/2015
Bachelor of Science in Electrical Engineering

TECHNICAL SKILLS

Software Engineering: Java, Python, Scala, Git, Bash / Shell, Docker, CircleCI, Unit Testing
Big Data Platform: Amazon EMR, Amazon Redshift, Hadoop MapReduce, Spark, Hive, Kafka
Machine Learning and Statistics: Scikit-learn, Spark MLLib, MatLab, SQL, R, Tableau
Web Development: HTML/CSS, JavaScript, JQuery, PHP, MySQL, PostgreSQL, Django, Flask