Zhuofan Zhang

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EDUCATION

University of Maryland, Robert H. Smith School of Business(3.964/4.0) **College Park, MD, USA**
Master of science, Business Analytics August 2019 **-** December 2020
- Database Management(SQL), Big Data and AI technology (Hadoop, PySpark), Data Mining & Analytics(R), Data Process Python,

East China Normal University, School of Physics **Shanghai, China**
Bachelor of Science, Physics September 2015 - June 2019
University of California Los Angeles, Summer School Program(3.5/4.0) **Los Angeles, CA, USA**
Summer School August - September 2017
- Introduction to Statistics(100A), Introduction to Mathematical Statistics(100B)

SKILLS

- Languages: GRE (325), IELTS (7.5)
- Programming Languages: Scala, Java, TypeScript, JavaScript, Python, R, SQL, PySpark, HiveQL, SparkML
- Analysis & Modeling: Statistical Modeling, Machine Learning, Deep Learning, Reinforcement Learning, A/B Testing
- Tools: AWS, Tableau, Databricks, Excel Solver, Excel Pivot Tables, Jupyter Notebook, R Studio, Microsoft Office

CERTIFICATIONS

- AWS Certified Developer – Associate (Validation Number: SHQHHSRJN1R1Q5SZ)
- AWS Certified Solutions Architect - Professional (Validation Number: ZC33TYR1YBB1Q3WQ)
- CCA175 Spark and Hadoop Developer (Credential: 100-023-695)
- Tableau Desktop Certified Associate (Candidate ID: 1043591)

WORK EXPERIENCE

Thoughtworks **Xian, China**
Software Development Engineer July 2021-Now
- Delivered billing functionalities and solution options for one of the biggest Accounting Software in Java, Scala and TypeScript.
- Helped team to remove delivery blocks by reaching out to other teams. Designed architecture for the accounting software using Servlerless framework on AWS platform. Drove refactor work within team before release.
- Drove data related work using Python and help improve workflow for data verification work within domain.
- Helped identify and solve network issues of deployment on Kubernetes platform.

Tencent **Online, USA**
Data Analyst Intern November 2020-Jan 2021
- Analyzed 20 million user search data for Tencent news and generated user search log. Utilized NLP to track trending key words and plot word clouds for each day.
- Used and trained LightGBM to do user classification. Used and trained Logistic Regression Model to predict research amounts within the next ten hours.
- Used Tableau to Count the time period frequency of users' search behavior and calculate the graph of the frequency of each word.

SELECTED PROJECTS

Restaurants Database and Recommendation Interface (R-Shiny, SQL, Tableau) (UMD) **Sep – Dec 2019**
- Built a database of 50 restaurants around UMD campus with information from both Google Map and yelp using SQL. And ran 10 customized queries on the database for customers and potential restaurant owners.
- Visualized results in 7 Tableau sheets and organized them into one dashboard to present to users.
- Created a web interface and word clouds with R Shiny to facilitate quicker and matching searching.
- Project URL: https://758y.shinyapps.io/Homepage/

Movie Gross Prediction Analysis (Machine Learning, scikit-learn, NLP) (UMD) **Mar – May 2020**
- Cleaned and analyzed 5000 movies' data fetched from Kaggle with information both from TMDb and IMDb
- Multiple plots, Word Cloud and analysis conclusion are included in the data exploratory analysis.
- Achieved an overall 80% prediction accuracy implementing multiple Machine Learning with cross- validation to predict movies' gross including Linear Regression Classification, SVM, Classification tree, Bagging, Random Forest and AdaBoost Classifier.
- Created a modeling pipeline for the whole process and also automated user experience
- Project website: https://github.com/Zhuofan-Zhang/IMDB-Movie-Analysis-Gross-Prediction

Stock Price Prediction and Trade Simulation (TensorFlow, Machine Learning) (UMD) **Apr-May 2020**
- Stock performance analysis based on Technical indicators for individual stocks using Pfizer as an example.
- Stock price prediction are conducted using Machine Learning, Deep Learning and Neural Network models.
- Achieved up to 49% return ratio based on our stock analysis and trading recommendation with a complete trade simulation within our project.
- Project website: https://github.com/Zhuofan-Zhang/Stock-Price-Prediction-and-Trade-Simulation