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Projects available at: https://github.com/wenbo5565/summary Mobile: +1-732-519-2156

SUMMARY

Looking for a job related to statistical modeling and data analysis; currently research on optimization and machine learning; previously a data analyst at Deloitte U.S.; programming in Python, R, VBA and Tableau. I am eligible to re-apply H1B visa immediately without lottery since I had H1B at Deloitte.

EDUCATION

George Washington University

Washington D.C.

M.S. Data Science; GPA: 4.0; Phd course: convex optimization, probability, nonlinear optimization Aug 2017-Present

Rutgers, the State University of New Jersey

New Brunswick, NJ

M.S. Statistics; GPA: 3.90; Regression analysis, data mining, time series analysis

Aug 2014- Dec 2015

Anhui University of Finance and Economics

Anhui, China

B.S. Accounting; CICPA-sponsored internship at PwC HongKong and RSM McGladrey Chicago

Aug 2008- Jun 2012

EXPERIENCE

George Washington University

Washington D.C.

Research Assistant advised by Prof. Miguel Lejeune

May 2018 - Present

- Stochastic programming and machine learning: Research on the emerging distributionally robust optimization (DRO) theory and its application in machine learning.
- Working paper: distributionally robust AUC optimization: Develop new classification models and algorithms to maximize Area under ROC curve (AUC) value using DRO with Wasserstein metric.

Deloitte U.S.

New York, NY

Data Analytics Specialist

Feb 2016 - Mar 2017

- Deloitte hotel analytics tool (DHAT): Design and develop a VBA app to enable assurance teams use third-party data and descriptive analysis. Author the user-guide. Recognized Deloitte's Applause award by an industry leader for exceptional performance.
- Data processing and visualization: Design and develop data processing pipelines in R and SAS. Build
 dashboards in Tableau to embed data visualization into audit risk assessment procedures for finance sectors.
- Group audit tool: Develop a VBA app to automate group auditing documentation procedure.

PROJECTS

Loan Application Prediction

 $https://github.com/wenbo5565/AppliedProject_GrantingLoan$

- Exploratory analysis: Conduct exploratory analysis for a bank's loan application data. Identify potential strategy to improve its profitability from the data.
- Machine learning model building: Develop a Gradient Boosting Trees model (GBM) to predict whether a loan application will be fully repaid in the future. Our model outperforms the bank's current strategy.
- o Business strategy: Propose a profitable strategy on previously denied applications based on our analysis.

Computer Vision/Image Analysis

https://github.com/wenbo5565/summary

- Behavioral cloning (deep learning): Develop a deep convolutional neural network to imitate human drivers' behavior in a simulator.
- Traffic lane detection: Develop a software pipeline to detect traffic lanes via a front-facing camera in a vehicle.
- Vehicle tracking: Develop image features extraction pipelines and support vector machine models to track nearby vehicles.

TECHNICAL SKILLS

- Tools: Python, R, VBA, MATLAB(CVX), Tableau, AMPL, GitHub, AWS, Google Cloud
- Libraries: numpy, sklearn, tensorflow, pandas, opency, matplotlib, R shiny, markdown