YUXUAN FEI

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EDUCATION

University of Illinois at Urbana-Champaign **Champaign, IL**

Master of Science in Statistics Aug. 2021 – May. 2023

GPA: 3.55/4.00

Courses: Advanced Regression Analysis, Advanced Mathematical Statistics, Fundamentals of Deep Learning

Central University of Finance and Economics **Beijing, China**

Bachelor of Science in Applied Statistics Sep. 2017 – Jun. 2021

Courses: Data Mining, Regression Analysis, Time Series Analysis, Statistical Computation

RELEVANT PROJECT

Translation Images Based on CycleGAN **Champaign, IL**

Final Project Oct – Dec. 2021

- Loaded and transformed (resize, flip, normalize) 5000 unpaired face and comic images which can be retrieved from Kaggle
- Established the CycleGAN model (two generators and two discriminators) based on Pytorch and translated the human face images into corresponding comic-style images, and vice versa
- Analyzed the graph of training loss and optimized the model by finding better values of hyper-parameters and adding more convolution layers to the generators

Bike Rental Data Analysis with Machine Learning Models **Beijing, China**

Graduation Thesis May – Jun. 2021

- Performed demand prediction as well as operations optimization analysis on bike rental data collected from Kaggle
- Pre-processed the data by identifying and treating outliers, recoding variables, and splitting the train and test datasets
- Created descriptive analysis on variables including temperature, humility, wind speed, time variables, seasonality, etc.
- Built 3 models: Random Forest, Original Linear Regression with RFE (Recursive Feature Elimination), and Non-convex Penalty Regression (SCAD, MCP) and selected the final model after comparing the MSEs

WORK EXPERIENCE

Data Science Intern (PTA) **Remote, China**

Ecommerce Transaction Growth Analysis, mentored by an Amazon senior data scientist Jul – Aug. 2020

- Analyzed the growth opportunities from a mock-up database based on Amazon's first party data
- Extracted, transformed, and loaded from the database using SQL queries; worked between the database and R/Python
- Delivered reports on user behaviors broken down by demographics, regions, and product usage and engagement

SKILLS

Software: Python(numpy, pytorch, pandas, matplotlib, scikit-learn), R(ggplot2), MySQL, MS Excel(sum, if, vlookup), C++
Language: English(Fluent), Chinese(Native)