

Yutong Yang

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EDUCATION

Master of Digital Innovation, Dalhousie University,
Specialization: Data Science Certificate

Expected 12/2023

B.S. Econometrics & Quant. Econ, University of Illinois at Urbana-Champaign,

05/2022

GPA 3.94/4

Relevant coursework: Data Analysis, Machine Learning, Process of Data Science, Foundations in Web Technologies, Statistics and Probability, Methods of Applied Statistics, Applied Econometrics, Financial Econometrics, Applied Regression and Design, Statistics Programming Methods

SKILLS

Certificates: SQL for Data Science (Coursera), Career Certificate for International Students (Univ. Illinois)

Programming languages: Python, R, MySQL, HTML, CSS, JavaScript, PHP

Software/Packages: Stata, EViews, MATLAB, SAP, NumPy, Matplotlib, Pandas, Seaborn, TensorFlow

General: LaTeX, GitHub, French (B1), English (Fluent), Chinese (Native)

PROFESSIONAL EXPERIENCE

University of Illinois – Teaching Assistant for Economic Statistics

08/2021 – 12/2021

- Held office hours to answer student questions about lecture content and homework questions, received positive student feedback.
- Organized and lead three exam review sessions for students to go over practice exams, improved average exam score by 10%.
- Collaborated with the course instructor and other teaching assistants to moderate and encourage in-class discussions.

University of Illinois – Public Relationship Assistant for CESA Student Union

09/2020 – 05/2021

- Negotiated with local businesses and University partners to secure sponsorship and funding for the association.
- Established relationship with other student associations within UIUC as well as other Chinese student association across the U.S.
- Assisted senior staff members with organizing monthly leadership and fund-raising meetings.

China Securities Co., Ltd. – Part-time Analyst

03/2020-08/2020

- Collected and processed prices data related to China's real estate market using MySQL under supervision of data scientists.
- Imported the collected data into R to perform preliminary data clean-up, analysis, and visualization.
- Created detailed visualization of numeric and categorical data using SAP analytics cloud and generated weekly analysis reports.

PROJECT EXPERIENCE

Zillow housing price extractor

Python, requests, OpenStreetMap, Matplotlib, Pandas

12/2022 – 01/2023

- Automatically extracted housing prices of selected cities from Zillow using Python requests, cleaned up the data using Pandas

- Converted house addresses into latitude and longitude using OpenStreetMap and overlaid the extracted prices on city maps

Stroke risk prediction using machine learning

Python, XGBoost, scikit-learn, TensorFlow, Seaborn

09/2022 – 12/2022

- Selected 12 variables using principal component analysis, used Seaborn to generate high-quality illustrative figures.
- Constructed 3 machine learning models, including logistic regression, random forest and voting classifier to predict stroke risk.
- Performed hyper-parameter optimization using grid search to further improve model accuracy, best weighted f1 score of >0.9.

Personal portfolio website

HTML, CSS, JavaScript

08/2022 – 09/2022

- Built a personal website using HTML and CSS for layouts, added interactive features using JavaScript functions.
- Published the website through GitHub and constantly updating it with recent completed projects.

Snake game in Python

Python, Turtle

05/2022 – 06/2022

- Implemented the classic snake game in Python using OOP knowledge and the Turtle package for graphics.
- Added features like scoreboard, keystroke detection and screen event listener to enhance user experience of the game.

Automated Amazon price tracker

Python, BeautifulSoup, Smtplib

03/2022 – 04/2022

- Automatically scrape the pricing information using BeautifulSoup given a URL for any Amazon product.
- Send price drop notification emails with a plot of recent price trends of the product to users through Smtplib.