Tianyu Du

Undergraduate at University of Toronto, Economics, Mathematics and Computer Science

PERSONAL INFORMATION

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GITHUB: https://github.com/TianyuDu

EDUCATION

University of Toronto, Toronto, Canada SEP. 2017

Honours Bachelor of Science (third year) - PRESENT

PROGRAMS TAKEN:

Economics& Mathematics Specialist

Computer Science Minor CURRENT CGPA: 4.00/4.00

EXPECTED GRADUATE DATE: Apr. 2020

AWARDS:

Dean's List Scholar 2018

Hangzhou Foreign Language School, Hangzhou, China SEP. 2014

General Certificate of Education, A Level by Cambridge International Examinations - IUN. 2017 COURSES TAKEN: Economics, Mathematics, Further Mathematics, Physics, English.

Advanced Placement

EXAM TAKEN: Microeconomics(Score: 5/5), Macroeconomics (Score: 5/5).

ACTIVITIES AND PROJECTS

Term Paper: Returns to Higher Education as a Heterogeneous Treatment Effect

This is an empirical term paper focusing on measuring the monetary of higher educations. Unlike the other researches focusing on average treatment effect, in this paper, we applied various matching methods to estimate the individual

level returns and analyzing factors affecting them.,

Artificial Neural Networks in Economic Forecasting (ANNEF) (Github Link, Documentation) CURRENT.

In this project, various neural networks, typically RNN, are deployed to perform forecasting tasks. And traditional time series analysis models are also implemented and compared with neural net based models.

FALL 2018 Home Credit Default Risk on Kaggle (Github Link)

In this project, gradient boosting machines are built to preform binary classification task on loan default prediction.

SEP. 2018 CIBC Machine Intelligence Hackaton (Github Link)

Finalist Group (Top 5)

During this Hackaton, each team has to come up with a solution to detect fraud in medical claims. My team presented a solution using an encoder-decoder architecture neural network to catch fraud in medical insurance claims. And our team was selected as a finalist group (the top 5 groups) based on our prediction accuracy and presentation.

^oThis copy of resume is complied on March 7, 2019.

SKILLS

- Python Building and training using tensorflow and keras python api. Handle dataset with numpy, scipy and sklearn. Visualization using matplotlib and bokeh.
- Latex Familiar with latex typeset including formatting and mathematical symbols.
- Matlab Data manipulation, setting up and training neural nets using Matlab.
- Stata Data navigation and regression analysis with Stata
- Amazon Web Service Setting up cloud server for neural net training and web hosting.
- Wolfram Mathematica Using Mathematica to Solve for analytical solutions to problems in Calculus and Optimization related subjects.
- Linux&Bash Manage files and run neural network training on linux-based servers.
- Version Control using Git Collaborating with contributors to the same project using git.