Tianyu Du

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

Personal Data

Date of Birth:	01 May 1999
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Education

Sep. 2017 - Present **University of Toronto**, Toronto, Canada
Honours Bachelor of Science (second year)
Programs taken: Economics&Mathematics Specialist and Computer Science Minor
Current cGPA: *4.00/4.00*

Sep. 2014 - Jun. 2017 **Hangzhou Foreign Language School**, Hangzhou, China
General Certificate of Education, A Level by Cambridge International Examinations
Courses taken: *Economics, Mathematics, Further Mathematics, Physics, English.*
Advanced Placement
Exam taken: *Microeconomics, Macroeconomics.*

ACtivities and Projects

Current. Economic Forecasting with Neural Networks (Github Link)
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.

Current. 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.

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
- Linux&Bash
- Version Control using Git