Vincent Hanxiao Du

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github repo: https://github.com/VincentHanxiaoDu?tab=repositories

Profile

Highly skilled student graduated from University of Toronto as a specialist in statistics. Have solid background on statistical categorization, regression analysis and inference. Specialized in both applications and theoretical analysis of statistical machine learning algorithms. Familiar with many programming languages such as Python, Java, C/C++ and R. Good at working either independently or collaboratively. Optimistic, self-motivated and quite reliable in group working. As an individual, I have various hobbies such as painting, reading, etc.

Objective

Data analysis, mining and storing management. Developing machine learning and statistical model applications.

Experience

Back-end developer at Tanxiaji (Intern)

- Python back-end development.
- Django back-end web development and database (SQL/ NoSQL) management.
- Finished web crawler module for crawling back-stage data from Meituan and Eleme (delivery platforms), including login and batch operations.
- Finished Captcha module for the back-stage management page.

Education

- University of Toronto - Specialist in Statistics: Statistical Machine Leaning and Data mining.
- cGPA 3.1/4, outstanding performance in major courses, c-level annual GPA 3.4/4, d-level annual GPA 3.9/4.
- Have excellent background in statistics, mathematics, computer science and software engineering. Familiar with many data structures.
- Good at reading scholarly peer-reviewed articles, writing reports and articles.
- Independently implemented algorithms such as KNN, K means clustering, perceptron, linear regression, logistic regression, etc. Familiar with theories and concepts in statistical categorization and regression. Most of the statistical models were implemented such as Monte-Carlo simulation, lasso/ridge/elastic net regularization, cross validation, etc.
- Collaboratively implemented a virtual shell (Github: Jshell), a course web page design (Github: CourseWebsite), have high capability of collaborating with other teammates.

Qualification & Skills

- Familiar with advanced APIs such as Numpy, Tensorflow, keras, etc.
- Independently finished various applications of machine learning algorithms, familiar with the implementations and theories of algorithms such as perceptron, NN, CNN, KNN, K means clustering, etc.
- Familiar with many training techniques like batch normalization and dropout.
- Capable of implementing advanced models/frameworks such as variational (debiased) autoencoders (Github: Debiased_Autoencoder), generative adversarial networks (Github: GAN_CELEBA, GAN_MNIST), FEAST Framework, etc.
- Proficient in developing applications of computer networks and web crawlers.
- Excellent code styles and rigorous programming logic.