

Junkyu Park

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<https://joon3216.github.io/>

Skills

- Data analysis
 - data manipulation: `dplyr`, `tidyr`, `pandas`
 - data visualization: `ggplot2`, `matplotlib.pyplot`, `seaborn`
 - regression analysis: R functions and packages, `statsmodels.api`
 - statistical computations: manually written functions, `numpy`, `scipy`
 - comprehension: able to find references and read documentations of external packages
- Technical
 - Markdown/R Markdown: able to form documentations
 - Git and git repositories:
 - * able to use basic git commands
 - * able to integrate dynamic badges supported by Travis CI and Codecov.io
 - Some knowledge of HTML and CSS: currently maintaining joon3216.github.io
 - SQL: able to join tables and write subqueries
 - Python and R
 - * able to utilize external packages for modeling, computations, and visualizations
 - * able to develop a simple package and upload to the archives
- Languages: English, Korean

Projects

Package development (work): `sprcr` package in R

- included the following functionalities to the package:
 - plotting kernel density estimates and empirical cdfs based on different colour and panel groups
 - smoothing out data points based on constraints and configurations
 - performing k-fold cross-validation in the smoothing process

Modeling (personal): credit card fraud detection

- built statistical models and provided [analysis](#) of data to detect fraudulent credit card use
- expected to achieve an accuracy of 97.105% and a true positive rate of 87.204% for every 6-hour worth of transaction data with the current model and the training set

Experience

Methodologist (MA-01)
Statistics Canada

Jan 2020 - Present · 7 mos
Ottawa, ON

- documented on various topics and ideas in statistics and computations
- involved in analysis and modeling process conducted by senior methodologists
- initiated a development of packages in R and Python

Education

H.B.Sc.: statistics specialist and math minor (GPA: 3.83)
University of Toronto

Jun 2019