MDS6212 Fintech Theory and Practice

Assignment for Week one

Reference, Dai, Lili, Jianlei Han, Jing Shi, and Bohui Zhang, 2020, Digital Footprints as Collateral for Debt Collection, working paper.

Data confidential requirements:

* Do not share datasets with others
* Do not post datasets on the Web site
* Datasets can only be used to work on assignments of MDS6212, M.Sc. in Data Science, CUHK-Shenzhen.

Datasets:

* Week 1 Data.csv
* Week 1 Variable descriptions.xlsx

Questions:

1. Present a table of summary statistics for the key variables including the borrower’ age, gender, loan amount, interest rate, credit scores, a dummy whether the borrower has a frequent contact, approval dummy, and delinquency dummy
2. Perform a logit regression and examine the relation between the delinquency likelihood and credit scores
3. Perform a logit regression and examine the relation between the loan approval likelihood and credit scores
4. Perform a logit regression and examine the relation between the loan approval likelihood and the dummy whether the borrower has a frequent contact