## 程序代写代做 CS 编程 绷 字 DSCI 451

Fall 2023

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On the CourseSite entry for this assignment is a state\_PA\_actions\_taken.csv file. This file includes historical data about home loan applications and approval or denial. Use this data set to **create a binary model that predicts loan repayment**. Essentially, the model will use information from this historical data to predict which people in the future are likely to repay their loan (because they were approved for a loan in the past) and those who are more likely to default (because they were denied a loan in the past).

Assignment Project Exam Help Everything necessary to complete this assignment should have been learned in DSCI 310 (or in equivalent prior coursework). Thus, this assignment provides an opportunity for students to showcase their previously acquired skills utores @ 163.com

## **DOCUMENTATION**

These data were made available by the US Consumer Financial Protection Bureau (CFPB) as required by the Home Mortgage Disclosure Act (HMDA). The data file for this project includes a subset of all home loans for which people applied in the state of Pennsylvania during 2019. The action\_taken column indicates whether the loan was originated (i.e., the loan was made to the applicant(s)) or denied: ILLDS://LULLOICS.COIII

- action\_taken == 1, the loan was originated
- action\_taken == 3, the loan was denied

Other values for action\_taken correspond to other outcomes excluded from this data set (e.g., the lending institution approved the loan to the applicant(s), but the appraised value of the property was less than the requested loan; the lending institution approved the loan, but the applicant(s) withdrew the loan application). These data only include loans that were approved and accepted or that were denied.

The remaining columns describe attributes of the applicant(s), the lending institution, the type of loan, the property, etc. Full details are available from the CFPB's website: <a href="https://ffiec.cfpb.gov/documentation/publications/loan-level-datasets/lar-data-fields/">https://ffiec.cfpb.gov/documentation/publications/loan-level-datasets/lar-data-fields/</a>.

**DELIVERABLES** 

Students should submit heir Fork as an North Wan CRo all required libraries and should install any non-standard libraries. The notebook should include code for all analytic\_sta data cleaning, preprocessing, model training, performance assessment, etc. The include justification for all analytic decisions – why aining, performance assessment, etc. were done in the the data cleaning, pro way they were. The ld accompany the relevant code in text blocks (i.e., ocks). Justifications can (and likely should) make use outside of the of concepts and exan e readings and class discussion. Justifications can also be based on prelimina lyses of the data, including the use of visualizations.

In some ways, this Project is comparable to the Final Project from DSCI 310, but with a less extensive write-up and less complex task. Furthermore, using an R Notebook will provide the opportunity to interweave the analysis itself with the written description thereof. The description and justifications provided in the notebook should provide sufficient detail for another student who successfully completed DSCI 310 to understand what was done and why.

The assignment submission on CourseSite should include both the .Rmd file and the .htmt file for the notebook.

Email: tutorcs@163.com

QQ: 749389476

https://tutorcs.com