Recommender Systems Final Lab

Due Date: 23:59 June22, 2024

You have a dataset about housing prices in various regions of Taiwan. We need to observe some important information from the data, learn how to handle missing values, and finally build a machine learning model using decision trees.

About data

T-Brain Machine Learning Competition

歡迎您使用「T-Brain AI實戰吧平台服務」,一旦您進入「T-Brain AI實戰吧平台服務」即表示您同意遵守下列條款及細則, 與任何不定時提供給您的政策、準則及更新條款及相關比賽規範,包括 (但不限於) 服務政策和法律聲明 (下稱「條款」)如下:

https://tbrain.trendmicro.com.tw/Competitions/Details/30

train.csv



test.csv



test_submit_template.csv

ID	predicted_price
TR-10001	
TR-10002	
TR-10003	

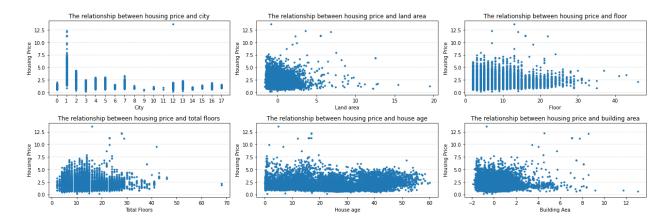
Q1: Analyze data by matplotlib

A

You need to user at least two type of charts

- Q-1: Show the correlation between '縣市' and '單價'.
- Q-2: Show the correlation between '主要用途' and '單價'.
- Q-3: Choose two variable by yourself.

Example



- Q2: Build tree-based ML model by scikit-learn
- Q-1: How to preprocess and deal with missing value
- Q-2: Build a tree-based ML model
- Q-3: Cross-Validation Results for [cv = 5]
- Q-4: Calculate results for test.csv and make conclusion