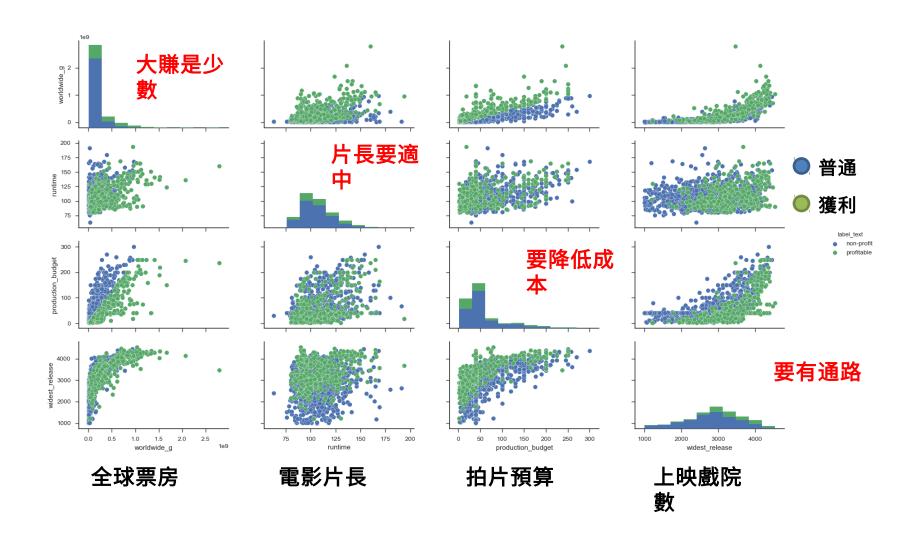
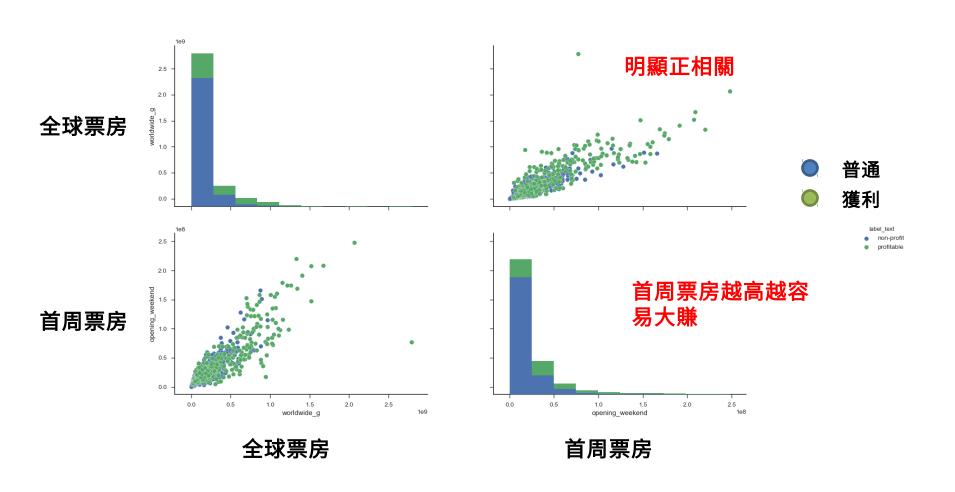
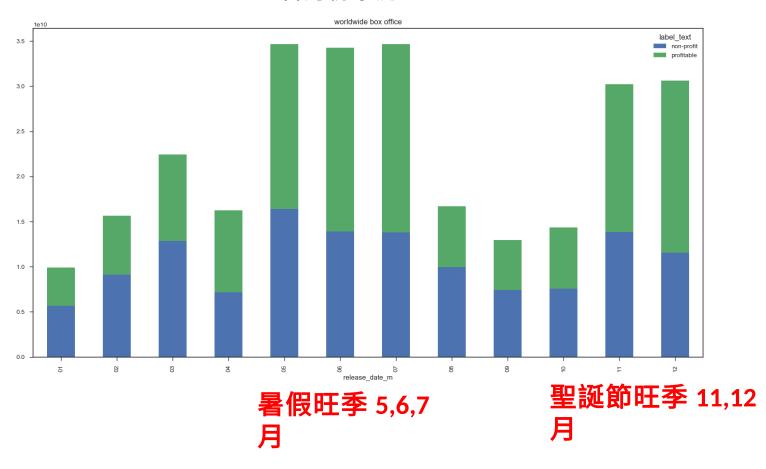
電影票房預測系統

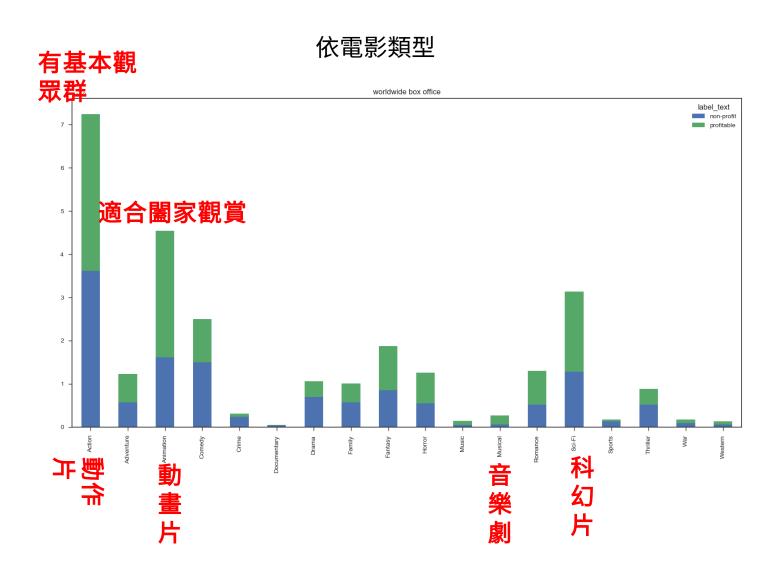
Exploratory data analysis (探索性數據分析)



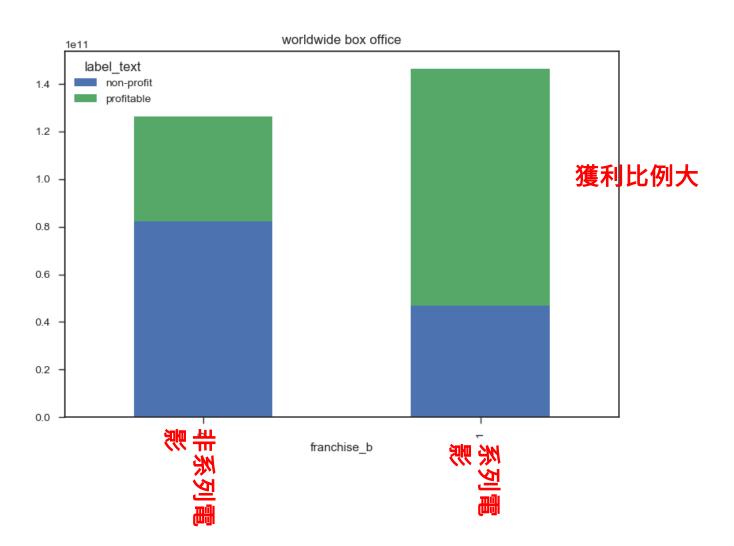


各月份票房

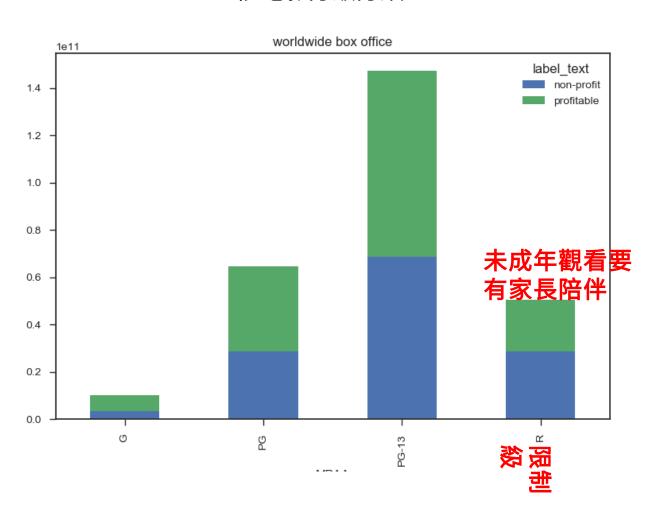




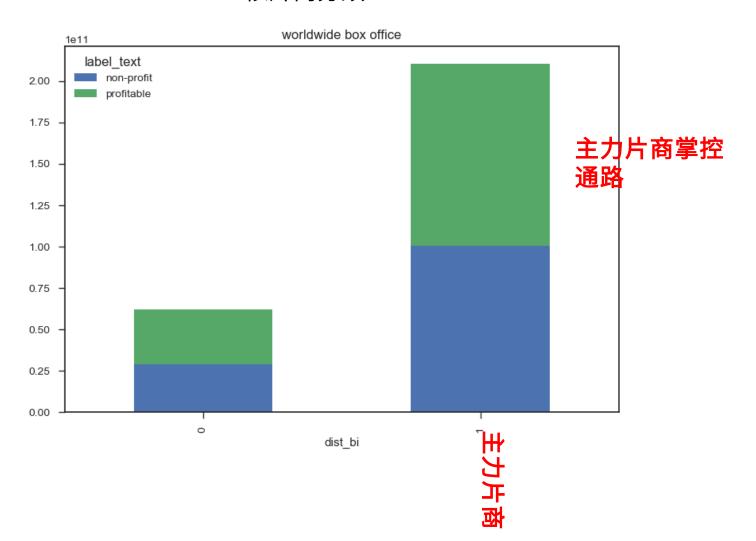
依系列電影分類



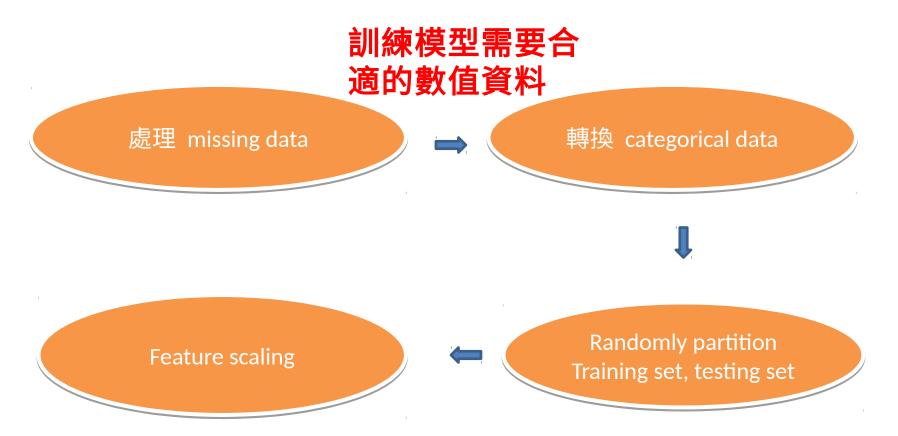
依電影分級分類



依片商分類



資料前處理



Random Forest(隨機森林)

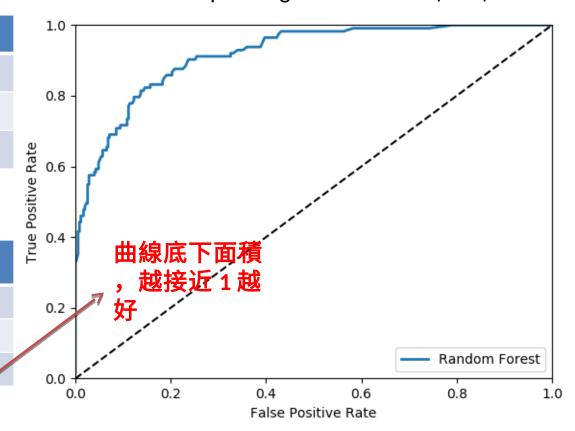
電影開拍前

評量指標	數值
Accuracy(train)	82.4%
Accuracy(test)	81.2%
Roc_auc	0.837

電影上映後

評量指標	數值
Accuracy(train)	89.5%
Accuracy(test)	87.0%
Roc_auc	0.917

Receiver Operating Characteristic (ROC)

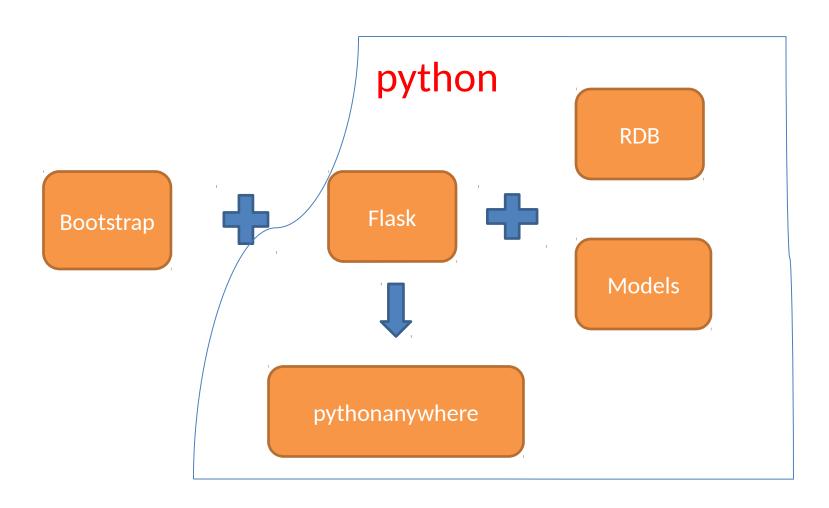


Random Forest

Feature importances 數值越高越重要

變數	數值
1) 首周票房	0.398510
2) 拍片預算	0.269303
3) 上映戲院數	0.084572
4) 電影片長	0.072779
5) 系列電影	0.016983
6) 電影分級 _PG	0.013339

網站建置



Pythonanywhere 雲端

