

KAGGLE COMPETITION PREDICTIONS REPORT

PREDICTION 1: HOUSE PRICES

PREDICTION 2: TELSTRA NETWORK
DISRUPTIONS


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PROJECTS' GOALS:

1. HOUSE PRICES

My job was to predict the sale price for each house. For each Id in the test set, I had to predict the value of the Sale Price variable in the train set.



House Prices: Advanced Regression Techniques

Predict sales prices and practice feature engineering, RFs, and gradient boosting
2,157 teams · 3 years to go

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[Overview](#)

Description

Evaluation

Frequently Asked Questions

Tutorials

Goal

It is your job to predict the sales price for each house. For each Id in the test set, you must predict the value of the SalePrice variable.

Metric

Submissions are evaluated on [Root-Mean-Squared-Error \(RMSE\)](#) between the logarithm of the predicted value and the logarithm of the observed sales price. (Taking logs means that errors in predicting expensive houses and cheap houses will affect the result equally.)

Submission File Format

The file should contain a header and have the following format:

```
Id,SalePrice
1461,169000.1
1462,187724.1233
1463,175221
etc.
```

You can download an example submission file (sample_submission.csv) on the [Data page](#).

I have chosen this project because as a beginner in data science, this topic seemed to be easy and interesting for me to work on.

At first, after making my choice, I was wondering whether I would be able to work on this project...after reading the tutorials and making more research, I believe I did the right job that was assigned to me.

2. TELSTRA NETWORK DISRUPTIONS

The goal of the problem was to predict Telstra network's fault severity at a time, at a particular location based on the log data available.

Data Introduction

The goal of the problem is to predict Telstra network's fault severity at a time at a particular location based on the log data available. Each row in the main dataset (train.csv, test.csv) represents a location and a time point. They are identified by the "id" column, which is the key "id" used in other data files.

Fault severity has 3 categories: 0,1,2 (0 meaning no fault, 1 meaning only a few, and 2 meaning many).

Different types of features are extracted from log files and other sources: event_type.csv, log_feature.csv, resource_type.csv, severity_type.csv.

Note: "severity_type" is a feature extracted from the log files (in severity_type.csv). Often this is a severity type of a warning message coming from the log. "severity_type" is categorical. It does not have an ordering. "fault_severity" is a measurement of actual reported faults from users of the network and is the target variable (in train.csv).

File descriptions

- train.csv - the training set for fault severity
- test.csv - the test set for fault severity
- sample_submission.csv - a sample submission file in the correct format
- event_type.csv - event type related to the main dataset
- log_feature.csv - features extracted from log files
- resource_type.csv - type of resource related to the main dataset
- severity_type.csv - severity type of a warning message coming from the log

This work has been given by the professor during the course examination, because he found us capable of working it out.

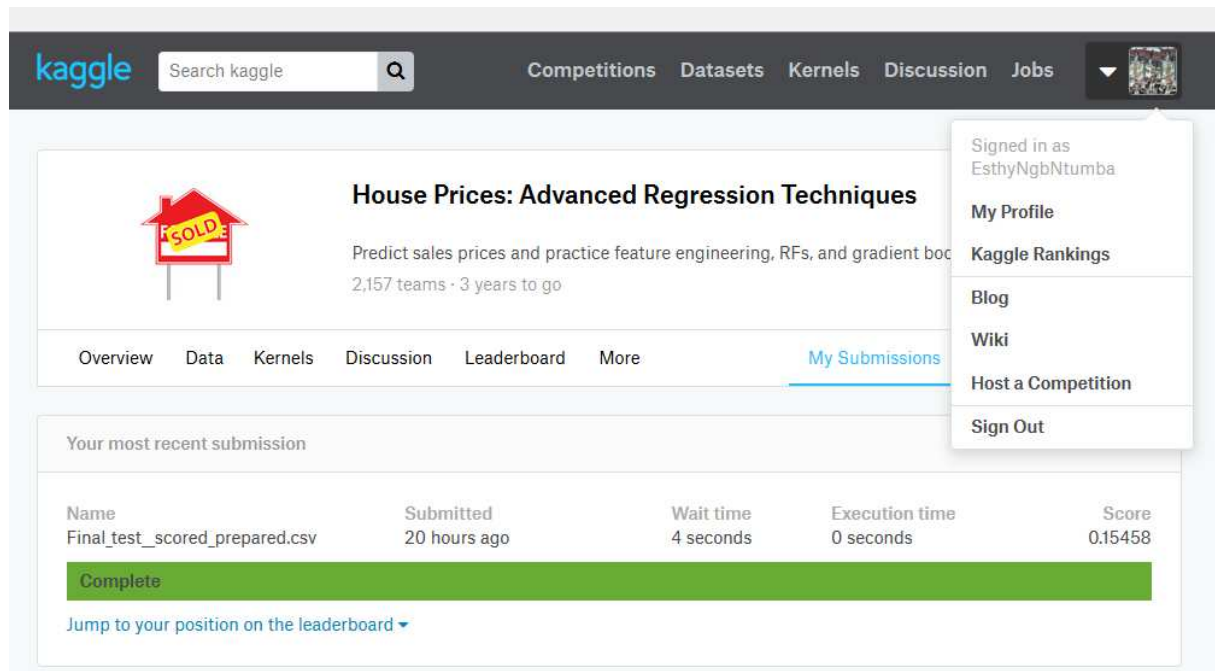
For both the projects, I have used the DSS platform with a little help from excel to solve each case.

A very good experience I had, especially the fact that at the beginning I had no clue at all to how to use it as my laptop could not run the program properly...

PREDICTION RESULTS

We were asked to submit all our KAGGLE competitions' predictions results on the website with the aim of being among the top 500 leaderboard members to be awarded. Here are the result of the work I have submitted, hoping to be one of the best.

1. House Prices



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Predict sales prices and practice feature engineering, RFs, and gradient boosting

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Overview Data Kernels Discussion Leaderboard More [My Submissions](#)

Your most recent submission

Name	Submitted	Wait time	Execution time	Score
Final_test_scored_prepared.csv	20 hours ago	4 seconds	0 seconds	0.15458

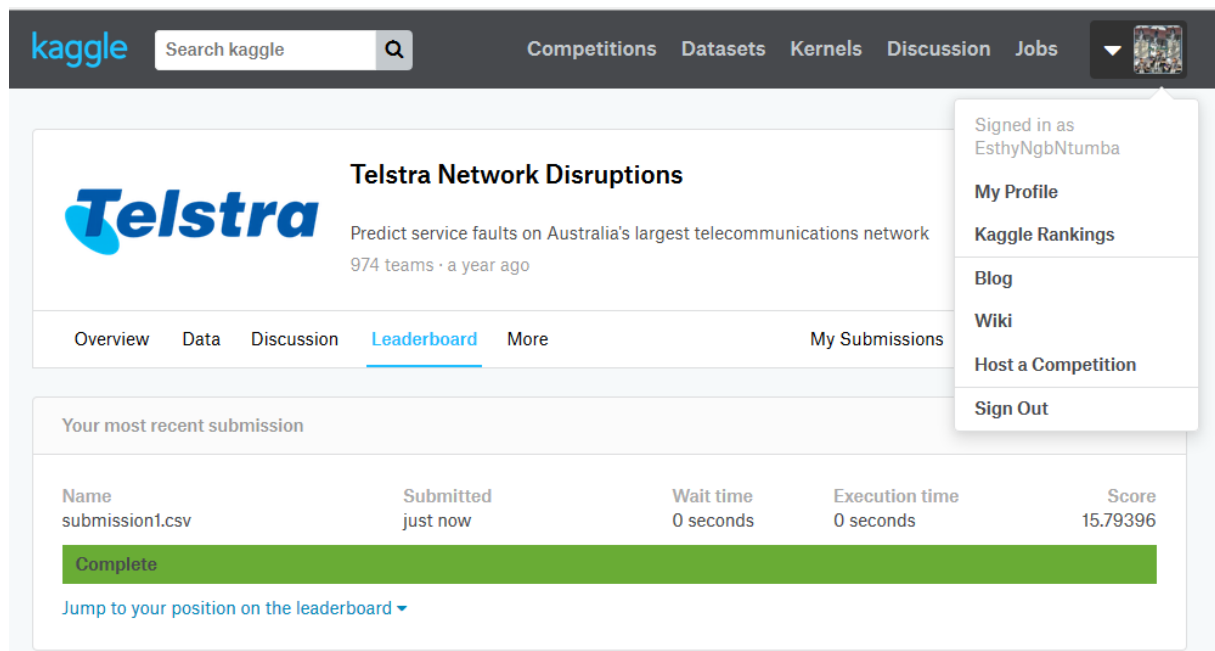
Complete

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Signed in as EsthyNgbNtumba

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2. Telstra Network Disruptions



Telstra Network Disruptions

Predict service faults on Australia's largest telecommunications network

974 teams · a year ago

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Your most recent submission

Name	Submitted	Wait time	Execution time	Score
submission1.csv	just now	0 seconds	0 seconds	15.79396

Complete

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REFERENCES

<https://www.kaggle.com/c/house-prices-advanced-regression-techniques#description>

<https://www.kaggle.com/c/telstra-recruiting-network>

http://6xqkiwbr.i.cloud.dataiku.com/projects/HOUSEPRICESV/datasets/testA__scored_prepared/explore/

<http://6xqkiwbr.i.cloud.dataiku.com/projects/TELSTRANETWORKDISRUPTIONS/datasets/submission1/explore/>

http://6xqkiwbr.i.cloud.dataiku.com/projects/TELSTRANETWORKDISRUPTIONS/datasets/test_scored/explore/

THANKS