Data Science Project for Candidate Hires

Tradeweb Market Data

June 9, 2021

1 Take Home Project Guidelines

1. This is an opportunity to showcase how you approach a project and share with the team.

2. Model accuracy is less important than how you approach and analyze the problem.

3. You have 5 days before expected submission to work on this project

   - Weekend days included.

   - Expected submission by 8pm EST on day 5.

   - For example, if project is assigned on a Thursday afternoon, expected delivery would be by 8pm Monday.

4. All project work to be self contained in a Jupyter notebook file.

5. Jupyter notebook file to be shared via publicly accessible Github repository.

6. Code progress should be checked in at least daily.

7. For given project problem we expect:

   - Descriptive statistics and illustrations of the data set.

   - Creativity in feature engineering

   - Developing a baseline model and developing improvements upon a baseline model

   - Exploration of a deep learning approach to the problem is a plus but not necessary.

   - Ability to illustrate results in an intuitive and informative way.

   - Importantly, no use of any pre-existing work on this project is to be used.

   - Analysis of model weakness with potential explanation.

8. A results file which provides target examples and respective predictions from model(s).

9. A link to the Github repository to be sent to **Samantha.Longlade@tradeweb.com**

2 Description of Project

- Project data located here.

- A description and goal of the project can be found in the Overview section.

- Use only the data in the Train.csv file for your project. You can split this further into train and test sets as needed.

- Good luck!