HPC CLOUD HACK 2018

Team **Belkin**

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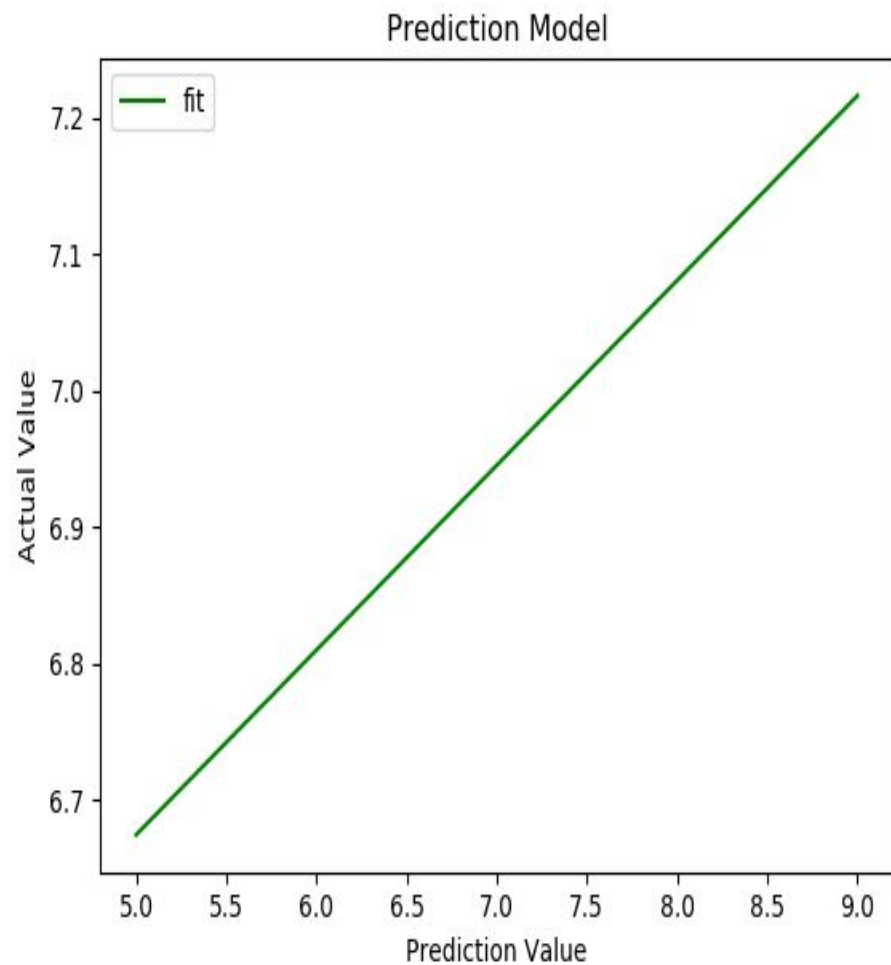
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Hack Goal

Create a model using Artificial Intelligence to predict IMDB(Overall) ratings based on ratings of different individual factors

Hack Goal

- Gather data from
- Filter data into usable form
- Create a Machine
- Feed the data to the model
- Compare the prediction with a test data
- Use linear regression to find relation with prediction and actual value

Results

- All factors were directly related to overall movie ratings but some more than others

- Plot rating has the highest correlation (of the factors used) with overall movie ratings

- Model prediction (used 90% of the data for training) gave us 8.75% error

- The prediction model can help movie makers choose what aspect of the movie to prioritize

- Movie companies can use this model to make estimation of how successful their movie is going to be

Prediction		Actual
7.6	----------------------------------->	7
7.6	----------------------------------->	7.5
7.6	----------------------------------->	6.6
7.6	----------------------------------->	7.9
7.6	----------------------------------->	7.8
7.6	----------------------------------->	6.8
7.6	----------------------------------->	7.4
7.4	----------------------------------->	5.3
7.6	----------------------------------->	7.4
7.2	----------------------------------->	7.9
5.0	----------------------------------->	6.3
7.6	----------------------------------->	6.7
8.0	----------------------------------->	6.5
8.0	----------------------------------->	6.2
7.6	----------------------------------->	5
7.6	----------------------------------->	7
7.6	----------------------------------->	6.3
7.6	----------------------------------->	5
7.9	----------------------------------->	8
7.6	----------------------------------->	7.6
7.6	----------------------------------->	7.9
7.6	----------------------------------->	8.3
8.1	----------------------------------->	6.7
7.6	----------------------------------->	5.6
7.6	----------------------------------->	7.6
7.6	----------------------------------->	7.2
7.6	----------------------------------->	6.3
7.6	----------------------------------->	7.1
7.6	----------------------------------->	6.2
7.6	----------------------------------->	8.1
5.0	----------------------------------->	7

Obstacle and Solutions

- Could not get data from IMDB and Rotten Tomatoes APIs directly
  - ➢ Had to look for data already compiled
- Transfering files to the Google Cloud
  - ➢ Had to generate keys using Putty