Analysis of the KNNBasic algorithm

In this notebook, we will run a basic neighborhood algorithm on the movielens dataset, dump the results, and use pandas to make some data analysis.

In [1]:
```
from __future__ import (absolute_import, division, print_function,
                        unicode_literals)
import pickle
import os

import pandas as pd

from surprise import KNNBasic
from surprise import Dataset
from surprise import Reader
from surprise import dump
from surprise.accuracy import rmse
```

In [2]:
```
# We will train and test on the u1.base and u1.test files of the movielens-100k dataset.
# if you haven't already, you need to download the movielens-100k dataset
# You can do it manually, or by running:

# Dataset.load_builtin('ml-100k')

# Now, let's load the dataset
train_file = os.path.expanduser(
    '~') + '/.surprise_data/ml-100k/ml-100k/u1.base'
test_file = os.path.expanduser('~') + '/.surprise_data/ml-100k/ml-100k/u1.test'
data = Dataset.load_from_folds([(train_file, test_file)], Reader('ml-100k'))

# We'll use a basic nearest neighbor approach, where similarities are computed
# between users.
algo = KNNBasic()

for trainset, testset in data.folds():
    algo.train(trainset)
    predictions = algo.test(testset)
    rmse(predictions)

    dump.dump('./dump_file', predictions, algo)
```

```
/home/user/workspace/.venv/lib/python3.6/site-packages/surprise/dataset.py:193: UserWarning: Using data.split() or using load
_from_folds() without using a CV iterator is now deprecated.
  UserWarning)
/home/user/workspace/.venv/lib/python3.6/site-packages/surprise/prediction_algorithms/algo_base.py:51: UserWarning: train() i
s deprecated. Use fit() instead
  warnings.warn('train() is deprecated. Use fit() instead', UserWarning)
```

```
Computing the msd similarity matrix...
Done computing similarity matrix.
RMSE: 0.9889
```

In [3]:
```
# The dump has been saved and we can now use it whenever we want.
# Let's load it and see what we can do
predictions, algo = dump.load('./dump_file')
```

In [4]:
```
trainset = algo.trainset
print('algo: {0}, k = {1}, min_k = {2}'.format(algo.__class__.__name__, algo.k,
                                               algo.min_k))
```

```
algo: KNNBasic, k = 40, min_k = 1
```

In [5]:
```
# Let's build a pandas dataframe with all the predictions


def get_Iu(uid):
    """Return the number of items rated by given user

    Args:
        uid: The raw id of the user.
    Returns:
        The number of items rated by the user.
    """

    try:
        return len(trainset.ur[trainset.to_inner_uid(uid)])
    except ValueError:  # user was not part of the trainset
        return 0


def get_Ui(iid):
    """Return the number of users that have rated given item

    Args:
        iid: The raw id of the item.
    Returns:
        The number of users that have rated the item.
    """

    try:
        return len(trainset.ir[trainset.to_inner_iid(iid)])
    except ValueError:  # item was not part of the trainset
        return 0
```

```
df = pd.DataFrame(predictions, columns=['uid', 'iid', 'rui', 'est', 'details'])
df['Iu'] = df.uid.apply(get_Iu)
df['Ui'] = df.iid.apply(get_Ui)
df['err'] = abs(df.est - df.rui)
```

In [6]:
```
df.head()
```

Out[6]:

	uid	iid	rui	est	details	Iu	Ui	err
0	1	6	5.0	3.468613	{'actual_k': 20, 'was_impossible': False}	135	20	1.531387
1	1	10	3.0	3.866290	{'actual_k': 40, 'was_impossible': False}	135	73	0.866290
2	1	12	5.0	4.538194	{'actual_k': 40, 'was_impossible': False}	135	211	0.461806
3	1	14	5.0	4.235741	{'actual_k': 40, 'was_impossible': False}	135	140	0.764259
4	1	17	3.0	3.228002	{'actual_k': 40, 'was_impossible': False}	135	72	0.228002

In [7]:
```
best_predictions = df.sort_values(by='err')[:10]
worst_predictions = df.sort_values(by='err')[-10:]
```

In [8]:
```
# Let's take a look at the best predictions of the algorithm
best_predictions
```

Out[8]:

	uid	iid	rui	est	details	Iu	Ui	err
272	5	439	1.0	1.0	{'actual_k': 3, 'was_impossible': False}	91	3	0.0
886	13	314	1.0	1.0	{'actual_k': 2, 'was_impossible': False}	373	2	0.0
156	2	314	1.0	1.0	{'actual_k': 2, 'was_impossible': False}	40	2	0.0
926	13	437	1.0	1.0	{'actual_k': 3, 'was_impossible': False}	373	3	0.0
9276	206	314	1.0	1.0	{'actual_k': 1, 'was_impossible': False}	33	2	0.0
19118	405	437	1.0	1.0	{'actual_k': 3, 'was_impossible': False}	582	3	0.0
8032	181	1334	1.0	1.0	{'actual_k': 1, 'was_impossible': False}	218	1	0.0
8041	181	1354	1.0	1.0	{'actual_k': 1, 'was_impossible': False}	218	1	0.0
9202	201	1424	3.0	3.0	{'actual_k': 1, 'was_impossible': False}	215	1	0.0
3018	60	1123	4.0	4.0	{'actual_k': 1, 'was_impossible': False}	119	1	0.0

It's interesting to note that these perfect predictions are actually lucky shots: $|U_i|$ is always very small, meaning that very few users have rated the target item. This implies that the set of neighbors is very small (see the `actual_k` field)... And, it just happens that all the ratings from the neighbors are the same (and mostly, are equal to that of the target user).

This may be a bit surprising but these lucky shots are actually very important to the accuracy of the algorithm... Try running the same algorithm with a value of `min_k` equal to 10. This means that if there are less than 10 neighbors, the prediction is set to the mean of all ratings. You'll see your accuracy decrease!

In [9]:
```
# Now, let's look at the prediction with the biggest error
worst_predictions
```

Out[9]:

	uid	iid	rui	est	details	Iu	Ui	err
9406	208	302	1.0	4.308447	{'actual_k': 40, 'was_impossible': False}	11	245	3.308447
19089	405	169	1.0	4.364728	{'actual_k': 40, 'was_impossible': False}	582	97	3.364728
19785	436	132	1.0	4.365369	{'actual_k': 40, 'was_impossible': False}	126	200	3.365369
157	2	315	1.0	4.381308	{'actual_k': 40, 'was_impossible': False}	40	136	3.381308
8503	193	56	1.0	4.386478	{'actual_k': 40, 'was_impossible': False}	61	312	3.386478
5531	113	976	5.0	1.610771	{'actual_k': 7, 'was_impossible': False}	31	7	3.389229
7917	181	408	1.0	4.421499	{'actual_k': 40, 'was_impossible': False}	218	93	3.421499
7390	167	169	1.0	4.664991	{'actual_k': 40, 'was_impossible': False}	38	97	3.664991
7412	167	1306	5.0	1.000000	{'actual_k': 1, 'was_impossible': False}	38	1	4.000000
5553	114	1104	5.0	1.000000	{'actual_k': 1, 'was_impossible': False}	27	1	4.000000

Let's focus first on the last two predictions. Well, we can't do much about them. We should have predicted 5, but the only available neighbor had a rating of 1, so we were screwed. The only way to avoid this kind of errors would be to increase the `min_k` parameter, but it would actually worsen the accuracy (see note above).

How about the other ones? It seems that for each prediction, the users are some kind of outsiders: they rated their item with a rating of 1 when the most of the ratings for the item where high (or inversely, rated a *bad* item with a rating of 5). See the plot below as an illustration for the first rating.

These are situations where baseline estimates would be quite helpful, in order to deal with highly biased users (and items).

In [10]:
```
from collections import Counter

import matplotlib.pyplot as plt
import matplotlib
%matplotlib notebook
%matplotlib inline
matplotlib.style.use('ggplot')

counter = Counter([r for (_, r) in trainset.ir[trainset.to_inner_iid('302')]])
pd.DataFrame.from_dict(counter, orient='index').plot(kind='bar', legend=False)
plt.xlabel('Rating value')
plt.ylabel('Number of users')
plt.title('Number of users having rated item 302')
```

```
plt.title('Number of users having rated item 302')
```

Out[10]: Text(0.5, 1.0, 'Number of users having rated item 302')

In [11]:
```
from sklearn.model_selection import cross_val_score

algo = KNNBasic()
data2 = Dataset.load_builtin('ml-100k')
dir(data2)
```

Out[11]:
```
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 '__ge__',
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 'construct_trainset',
 'folds',
 'has_been_split',
 'load_builtin',
 'load_from_df',
 'load_from_file',
 'load_from_folds',
 'ratings_file',
 'raw_folds',
 'raw_ratings',
 'read_ratings',
 'reader',
 'split']
```

In [12]:
```
dir(algo)
```

Out[12]:
```
['__class__',
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 '__doc__',
 '__eq__',
 '__format__',
 '__ge__',
 '__getattribute__',
 '__gt__',
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 '__setattr__',
 '__sizeof__',
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 '__str__',
 '__subclasshook__',
 '__weakref__',
 'bsl_options'
```

```
 bsl_options',
 'compute_baselines',
 'compute_similarities',
 'default_prediction',
 'estimate',
 'fit',
 'get_neighbors',
 'k',
 'min_k',
 'predict',
 'sim_options',
 'skip_train',
 'switch',
 'test',
 'train',
 'verbose']
```

In [13]:
```
t = data2.folds()
next(t)
```

```
/home/user/workspace/.venv/lib/python3.6/site-packages/surprise/dataset.py:193: UserWarning: Using data.split() or using load
_from_folds() without using a CV iterator is now deprecated.
  UserWarning)
```

Out[13]:
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```

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In [15]:

```
algo = KNNBasic()

for trainset, testset in data.folds():
    algo.fit(trainset)
    predictions = algo.test(testset)
    rmse(predictions)

    dump.dump('./dump_file', predictions, algo)
```

```
Computing the msd similarity matrix...
Done computing similarity matrix.
RMSE: 0.9889
```