Moshe Binieli

1. Estimation Maximization Threshold is 5.
2.

```
Likelihood in iteration 0 is -2610677.0043.
Likelihood in iteration 1 is -2589172.37933.
Likelihood in iteration 2 is -2566985.29385.
Likelihood in iteration 3 is -2550081.22045.
Likelihood in iteration 4 is -2539764.61669.
Likelihood in iteration 5 is -2535789.21057.
Likelihood in iteration 6 is -2532861.897.
Likelihood in iteration 7 is -2530579.11019.
Likelihood in iteration 8 is -2528758.76219.
Likelihood in iteration 9 is -2527402.18189.
Likelihood in iteration 10 is -2525750.08875.
Likelihood in iteration 11 is -2525203.22227.
Likelihood in iteration 12 is -2524586.88854.
Likelihood in iteration 13 is -2524232.10568.
Likelihood in iteration 14 is -2524084.06919.
Likelihood in iteration 15 is -2523917.67657.
Likelihood in iteration 16 is -2523488.8069.
Likelihood in iteration 17 is -2523396.29868.
Likelihood in iteration 18 is -2523265.14061.
Likelihood in iteration 19 is -2523083.51467.
Likelihood in iteration 20 is -2523034.69685.
Likelihood in iteration 21 is -2523031.52745.
```
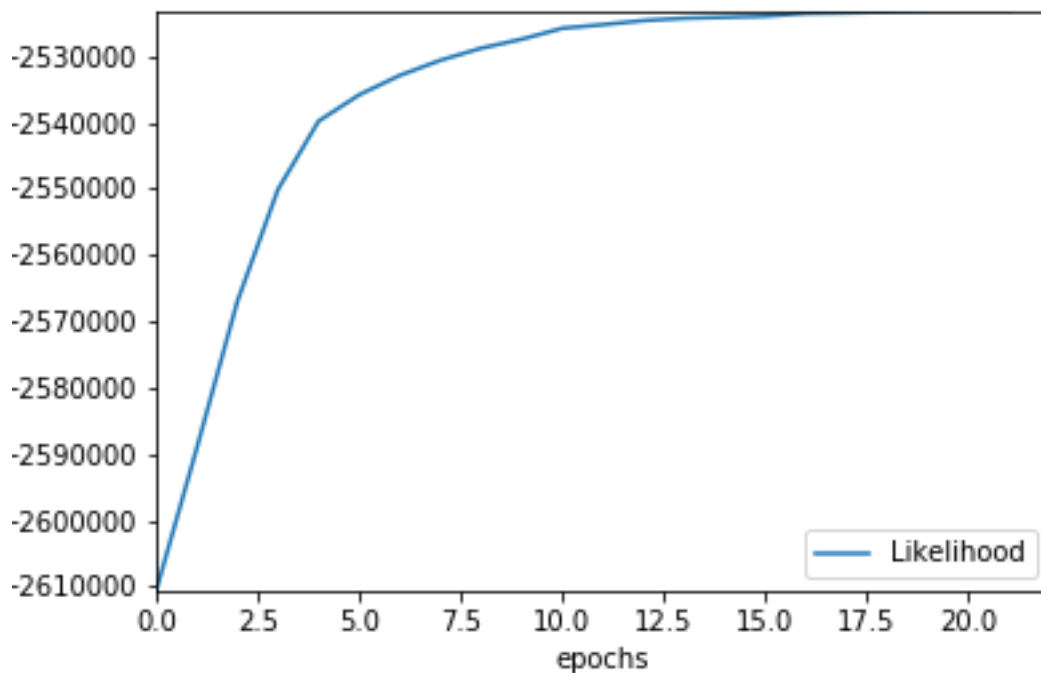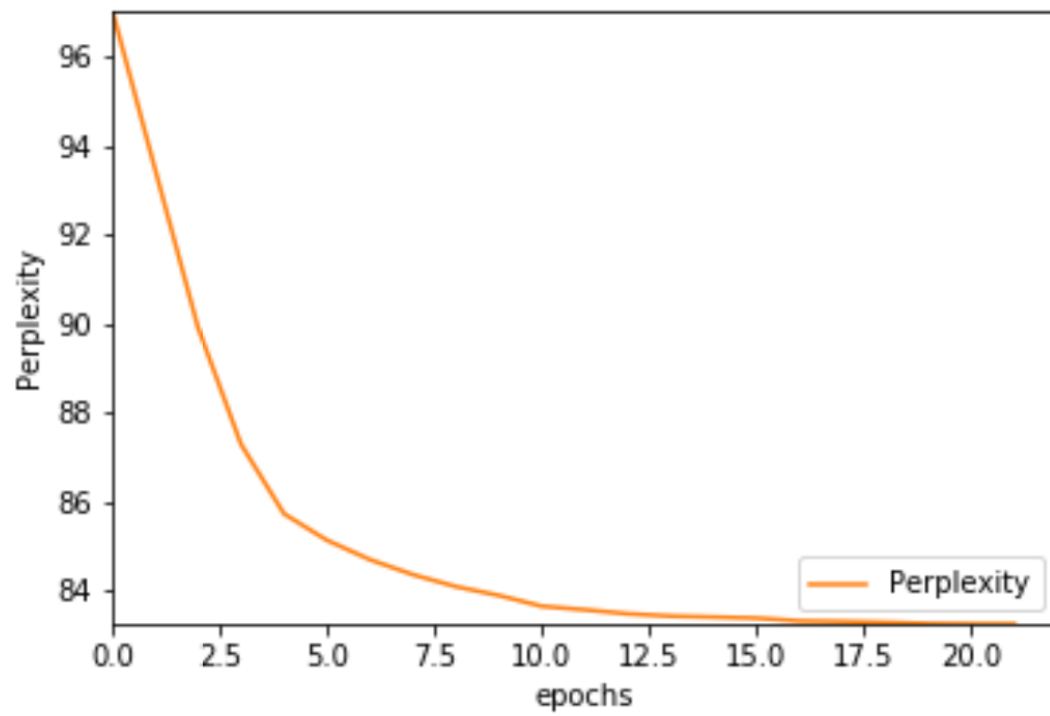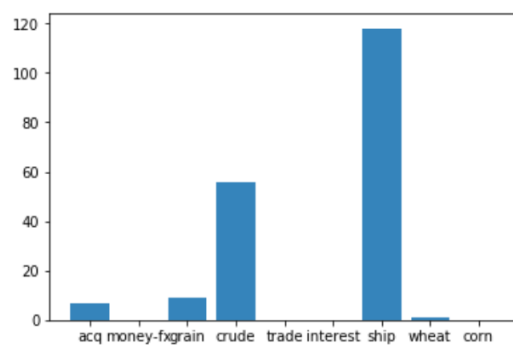
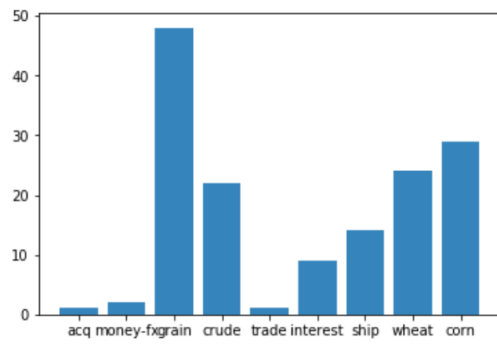3. Confusion matrix is in excel file called matrix.
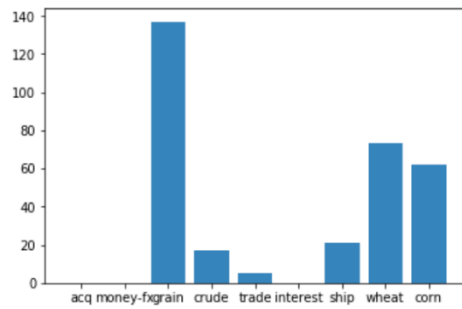4. Histograms

   Main Topic: money-fx
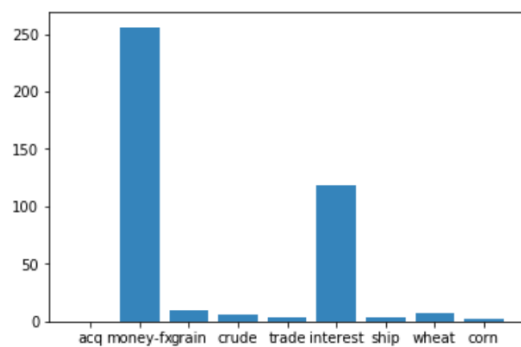
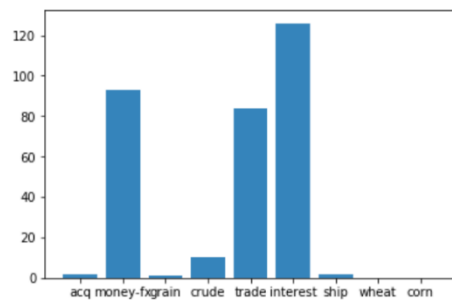
   Main Topic: ship

Main Topic: grain

Main Topic: grain

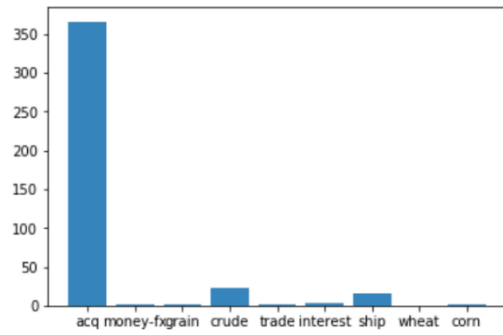

Main Topic: crude
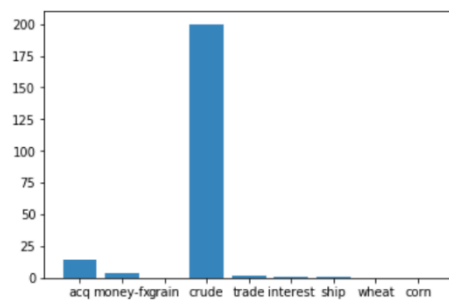
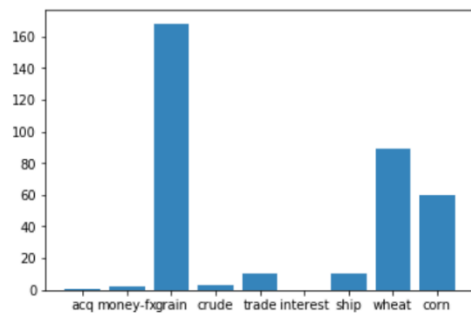**Main Topic:** interest

Main Topic: acq

Main Topic: grain

Main Topic: trade
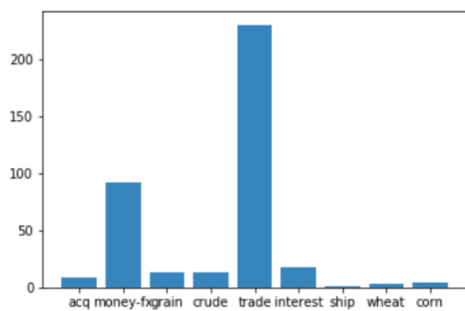

5. The accuracy of the model is 0.776365.
6. **Parameters**:

       K is 10.

       Lambda is 1.1.

       Vocabulary size is 6,800.