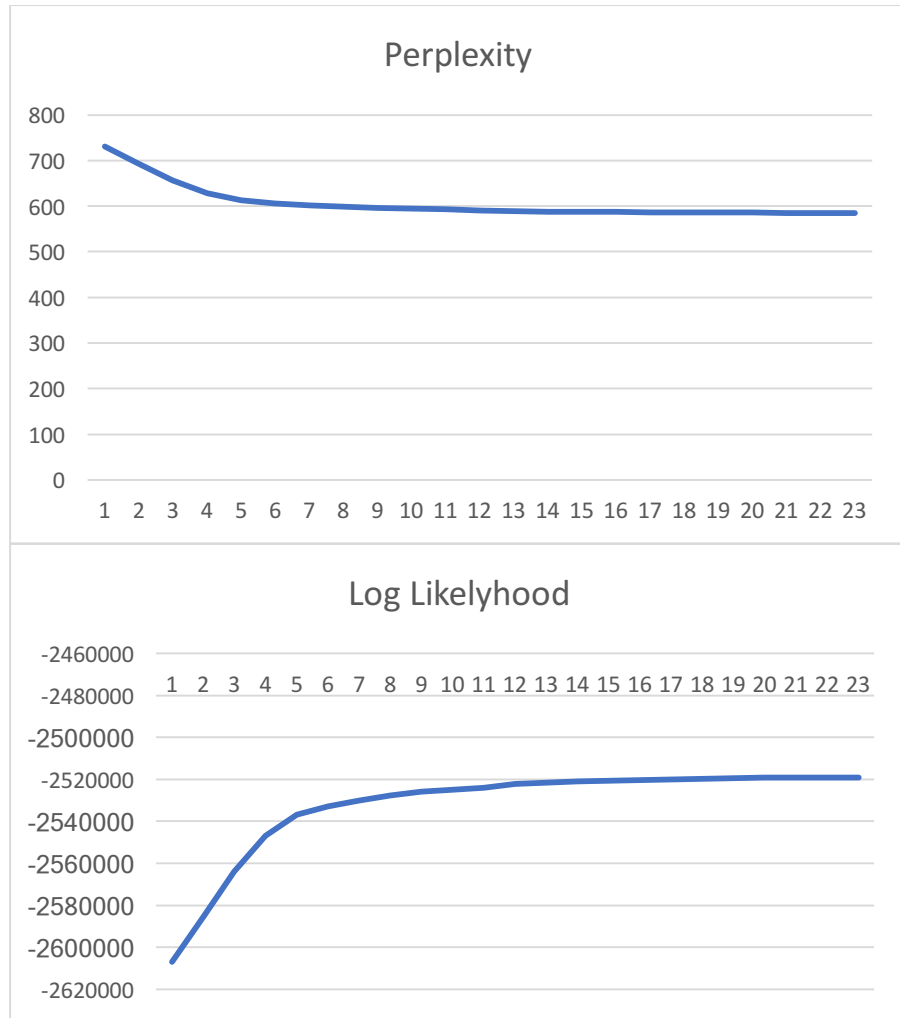


## Ex3 Report

1. Threshold to stop EM :  $1e-3$

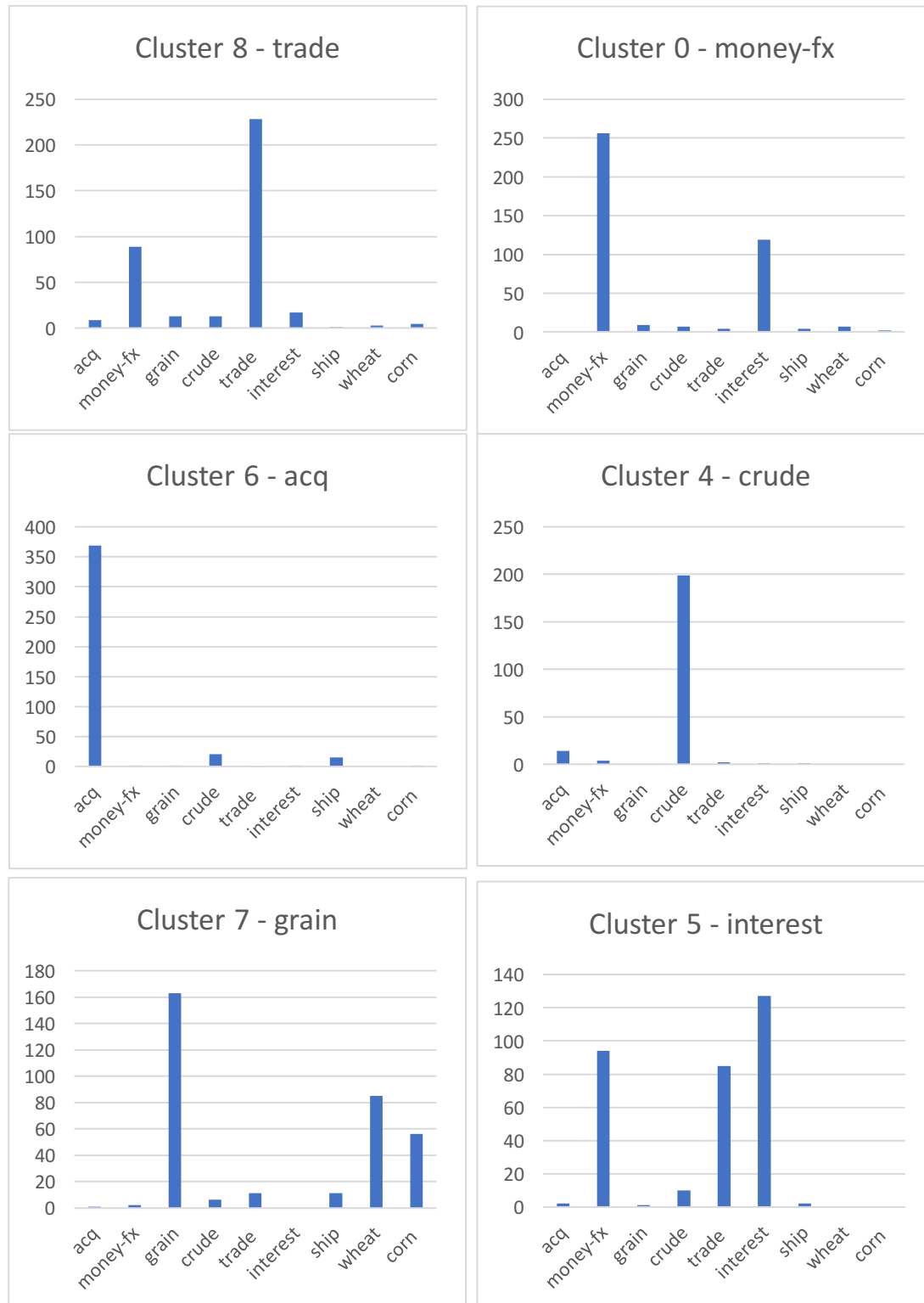
2.



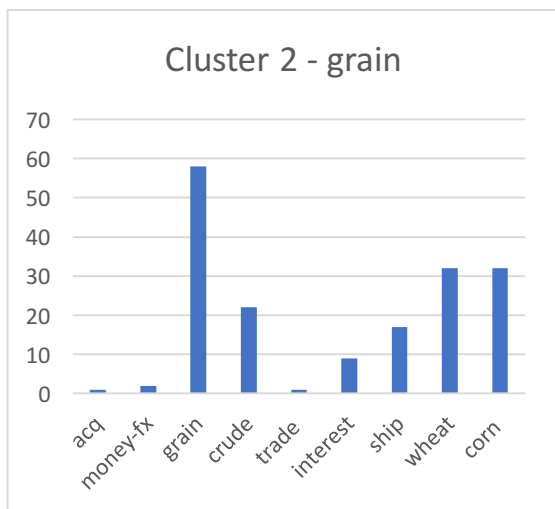
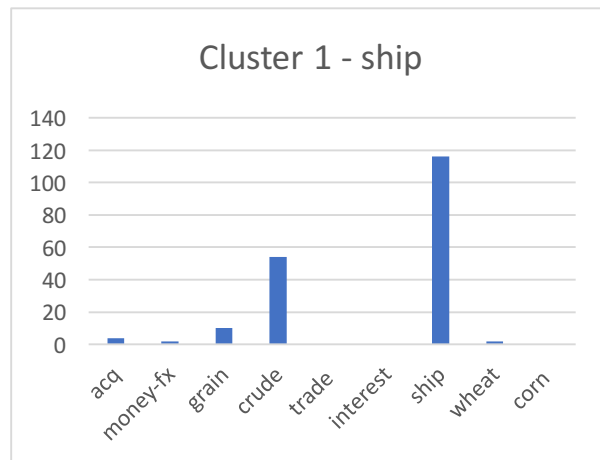
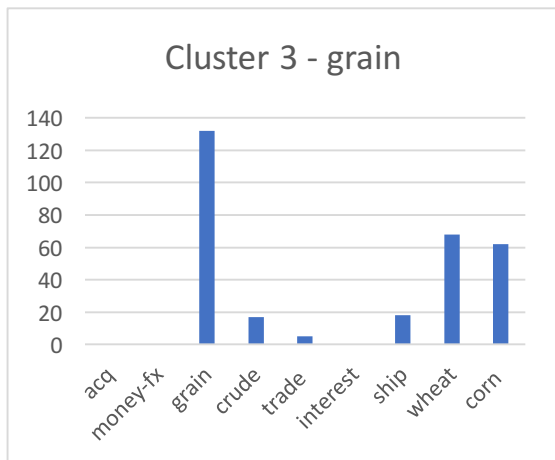
3. Confusion Matrix:

	acq	money-fx	grain	crude	trade	interest	ship	wheat	corn	total
6	369	2	2	21	1	2	15	0	2	400
8	9	89	13	13	228	17	1	3	5	333
0	0	257	9	7	4	119	4	7	2	312
5	2	94	1	10	85	127	2	0	0	264
4	14	4	0	199	2	1	1	0	0	211
7	1	2	163	6	11	0	11	85	56	186
3	0	0	132	17	5	0	18	68	62	163
1	4	2	10	54	0	0	116	2	0	151
2	1	2	58	22	1	9	17	32	32	104

#### 4. Histograms:



Shauli Ravfogel 308046861  
Or Zipori 302933833



5. Accuracy of the model is 77.636%.

6. Parameters:

$k = 10$

vocabulary size = 6800

$\lambda = 1$

Shauli Ravfogel 308046861

Or Zipori 302933833

A graph that represents the topics per cluster:

