Machine learning

1. Kmeans clustring:

	k	max_iterations	n_intilizations	Result
1	3	40	10	**0.585**
2	6	40	10	**0.678**
3	12	40	10	**0.701**
4	24	40	10	**0.347**
5	16	40	10	**0.358**
6	10	40	10	**0.710**
7	9	40	10	**0.716**
8	8	40	10	**0.716**
9	7	40	10	**0.702**
10	6	40	10	**0.725**

Best num of clusters = 6
Best score = 0.725

2. Agglomerative clustring:

	Metric	Linkage	num_of_clusters	Result
1	euclidean	ward	6	**0.725**
2	euclidean	average	8	**0.709**
3	euclidean	complete	10	**0.707**
4	euclidean	single	5	**0.692**
5	manhattan	ward	5	**0.692**
6	manhattan	average	11	**0.695**
7	manhattan	complete	11	**0.703**
8	manhattan	single	5	**0.692**
9	cosine	average	3	**0.610**
10	cosine	complete	3	**0.610**

Best num of clusters = 6
Best score = 0.725

3. DBSCAN clustring:

	Epsilon	minimum_samples	num_of_clusters	Result
1	5	10	3	**0.586**
2	10	20	1	**0.586**
3	6	8	2	**0.358**
4	4	6	5	**0.692**
5	4	7	5	**0.692**
6	4	8	5	**0.692**
7	4	10	5	**0.692**
8	1	3	6	**0.713**
9	1	5	6	**0.707**
10	1.5	5	5	**0.689**

Best num of clusters = 6
Best score = 0.713