1. **Test Size = 0,2 için:**

**1.1- Bag of Words**

**1- Lojistik Regresyon:**

* Accuracy: 0.95
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

**2- Karar Ağaçları:**

* Accuracy: 0.904
* Precision: 0.90
* Recall: 0.90
* F1-Score: 0.90

**3- Destek Vektör Makineleri:**

3.1- Kernel=linear:

* Accuracy: 0.937
* Precision: 0.94
* Recall: 0.94
* F1-Score: 0.94

3.2- Kernel=rbf:

* Accuracy: 0.915
* Precision: 0.92
* Recall: 0.92
* F1-Score: 0.91

**4- Yapay Sinir Ağları:**

4.1- Gizli Katman=100, Aktivasyon Fonksiyonu=Logistic:

* Accuracy: 0.945
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

4.2- Gizli Katman=100, Aktivasyon Fonksiyonu=Tanh:

* Accuracy: 0.948
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

4.3- Gizli Katman=200, Aktivasyon Fonksiyonu=Logistic:

* Accuracy: 0.944
* Precision: 0.94
* Recall: 0.94
* F1-Score: 0.94

4.4- Gizli Katman=200, Aktivasyon Fonksiyonu=Tanh:

* Accuracy: 0.947
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

**5- K-En Yakın Komşu Algoritması (KNN):**

**5.1- K=3:**

5.1.1- K=3, Metric=Cosine:

* Accuracy: 0.852
* Precision: 0.86
* Recall: 0.85
* F1-Score: 0.85

5.1.2- K=3, Metric=Euclidean:

* Accuracy: 0.74
* Precision: 0.76
* Recall: 0.74
* F1-Score: 0.73

5.1.3- K=3, Metric=Manhattan:

* Accuracy: 0.653
* Precision: 0.76
* Recall: 0.65
* F1-Score: 0.61

**5.2- K=5:**

5.2.1- K=5, Metric=Cosine:

* Accuracy: 0.855
* Precision: 0.87
* Recall: 0.86
* F1-Score: 0.85

5.2.2- K=5, Metric=Euclidean:

* Accuracy: 0.73
* Precision: 0.75
* Recall: 0.73
* F1-Score: 0.72

5.2.3- K=5, Metric=Manhattan:

* Accuracy: 0.631
* Precision: 0.75
* Recall: 0.63
* F1-Score: 0.58

**5.3- K=13:**

5.3.1- K=13, Metric=Cosine:

* Accuracy: 0.848
* Precision: 0.86
* Recall: 0.85
* F1-Score: 0.85

5.3.2- K=13, Metric=Euclidean:

* Accuracy: 0.703
* Precision: 0.75
* Recall: 0.70
* F1-Score: 0.68

5.3.3- K=13, Metric=Manhattan:

* Accuracy: 0.59
* Precision: 0.75
* Recall: 0.59
* F1-Score: 0.50

**1.2 - TF-IDF**

**1- Lojistik Regresyon:**

* Accuracy: 0.946
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

**2- Karar Ağaçları:**

* Accuracy: 0.891
* Precision: 0.89
* Recall: 0.89
* F1-Score: 0.89

**3- Destek Vektör Makineleri:**

3.1- Kernel=linear:

* Accuracy: 0.954
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

3.2- Kernel=rbf:

* Accuracy: 0.517
* Precision: 0.27
* Recall: 0.52
* F1-Score: 0.35

**4- Yapay Sinir Ağları:**

4.1- Gizli Katman=100, Aktivasyon Fonksiyonu=Logistic:

* Accuracy: 0.946
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

4.2- Gizli Katman=100, Aktivasyon Fonksiyonu=Tanh:

* Accuracy: 0.942
* Precision: 0.94
* Recall: 0.94
* F1-Score: 0.94

4.3- Gizli Katman=200, Aktivasyon Fonksiyonu=Logistic:

* Accuracy: 0.946
* Precision: 0.95
* Recall: 0.95
* F1-Score: 0.95

4.4- Gizli Katman=200, Aktivasyon Fonksiyonu=Tanh:

* Accuracy: 0.943
* Precision: 0.94
* Recall: 0.94
* F1-Score: 0.94

**5- K-En Yakın Komşu Algoritması (KNN):**

**5.1- K=3:**

5.1.1- K=3, Metric=Cosine:

* Accuracy: 0.851
* Precision: 0.86
* Recall: 0.85
* F1-Score: 0.85

5.1.2- K=3, Metric=Euclidean:

* Accuracy: 0.532
* Precision: 0.75
* Recall: 0.53
* F1-Score: 0.38

5.1.3- K=3, Metric=Manhattan:

* Accuracy: 0.517
* Precision: 0.27
* Recall: 0.52
* F1-Score: 0.35

**5.2- K=5:**

5.2.1- K=5, Metric=Cosine:

* Accuracy: 0.856
* Precision: 0.86
* Recall: 0.86
* F1-Score: 0.86

5.2.2- K=5, Metric=Euclidean:

* Accuracy: 0.526
* Precision: 0.75
* Recall: 0.53
* F1-Score: 0.37

5.2.3- K=5, Metric=Manhattan:

* Accuracy: 0.517
* Precision: 0.27
* Recall: 0.52
* F1-Score: 0.35

**5.3- K=13:**

5.2.1- K=13, Metric=Cosine:

* Accuracy: 0.854
* Precision: 0.86
* Recall: 0.85
* F1-Score: 0.85

5.2.2- K=13, Metric=Euclidean:

* Accuracy: 0.52
* Precision: 0.75
* Recall: 0.52
* F1-Score: 0.36

5.2.3- K=13, Metric=Manhattan:

* Accuracy: 0.51
* Precision: 0.27
* Recall: 0.52
* F1-Score: 0.35