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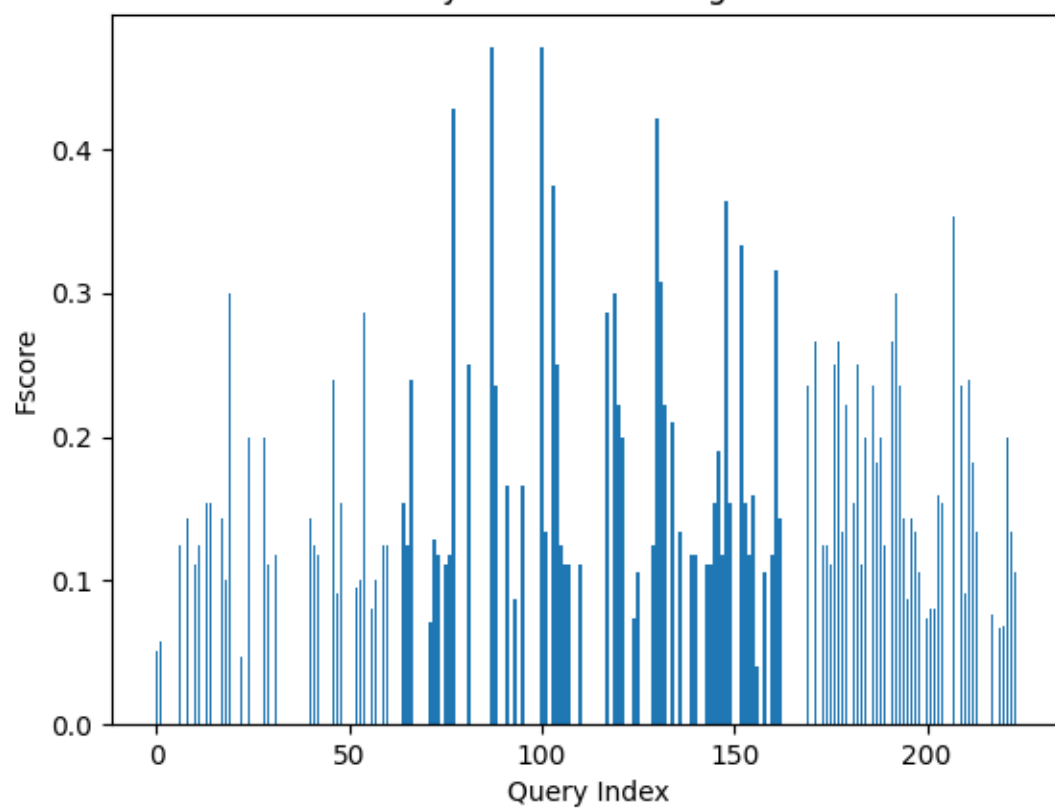
U01095958

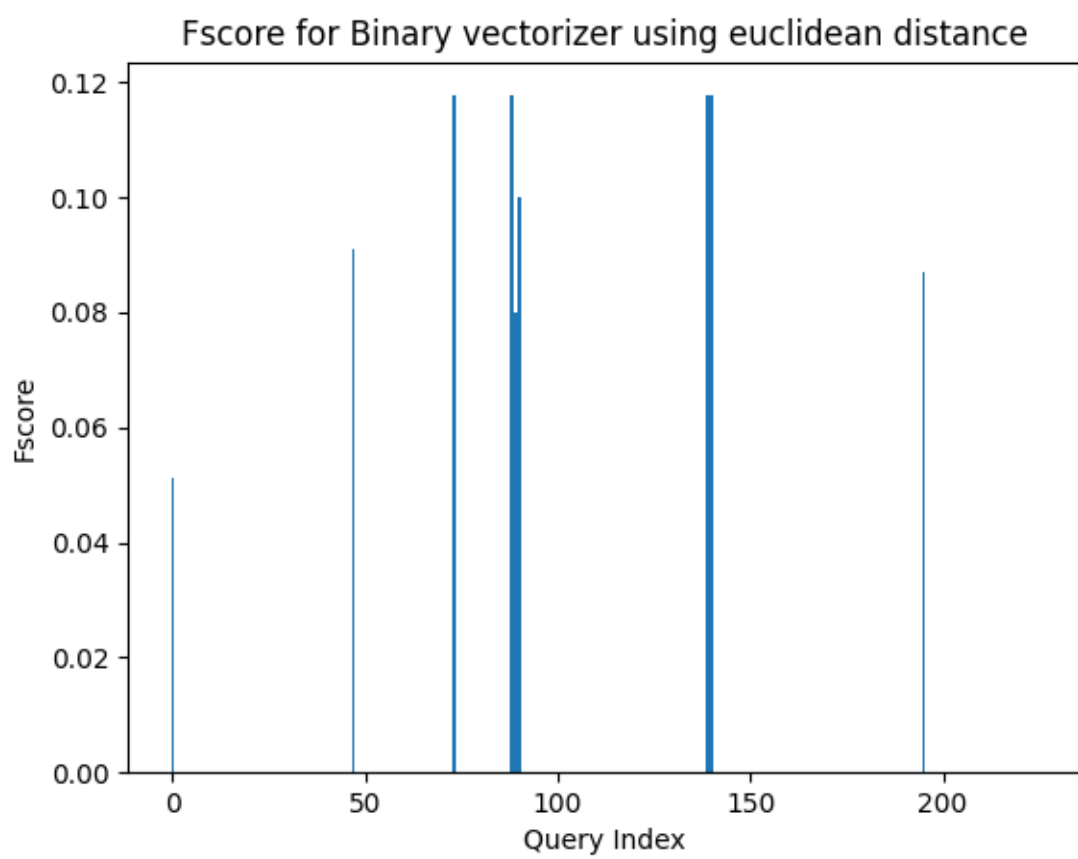
F-Score:

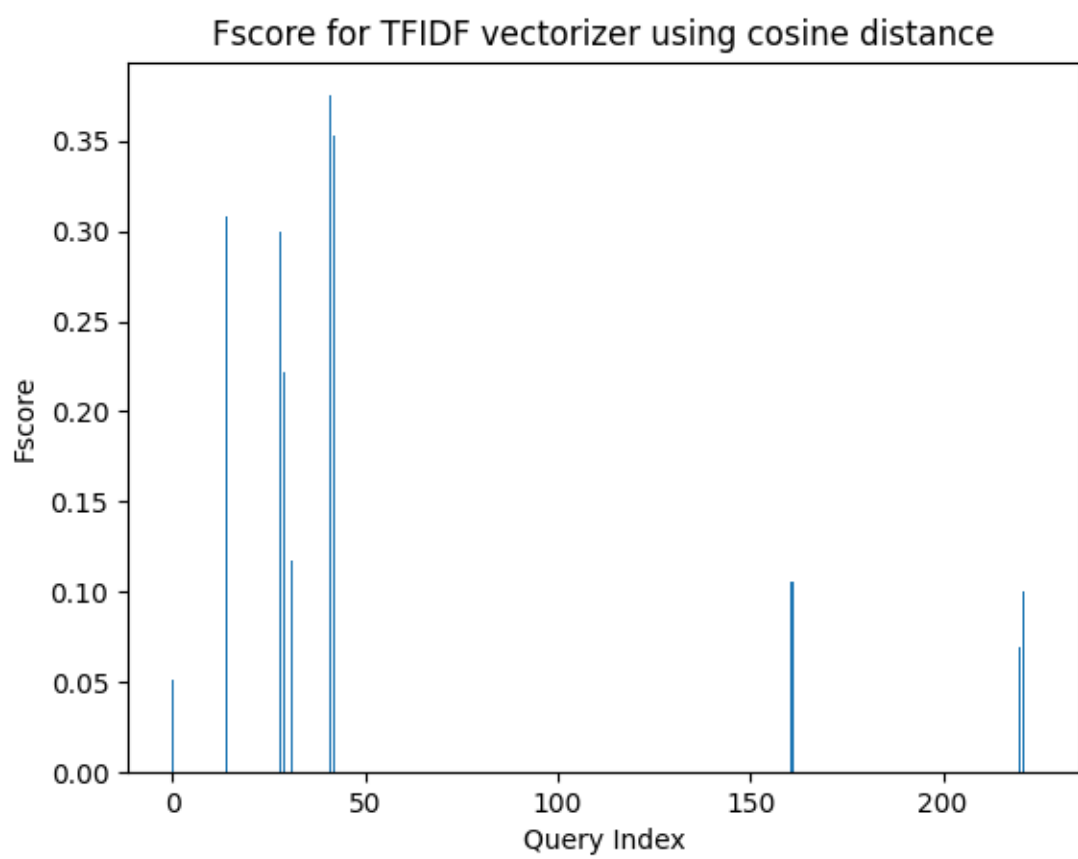
the harmonic mean of recall and precision

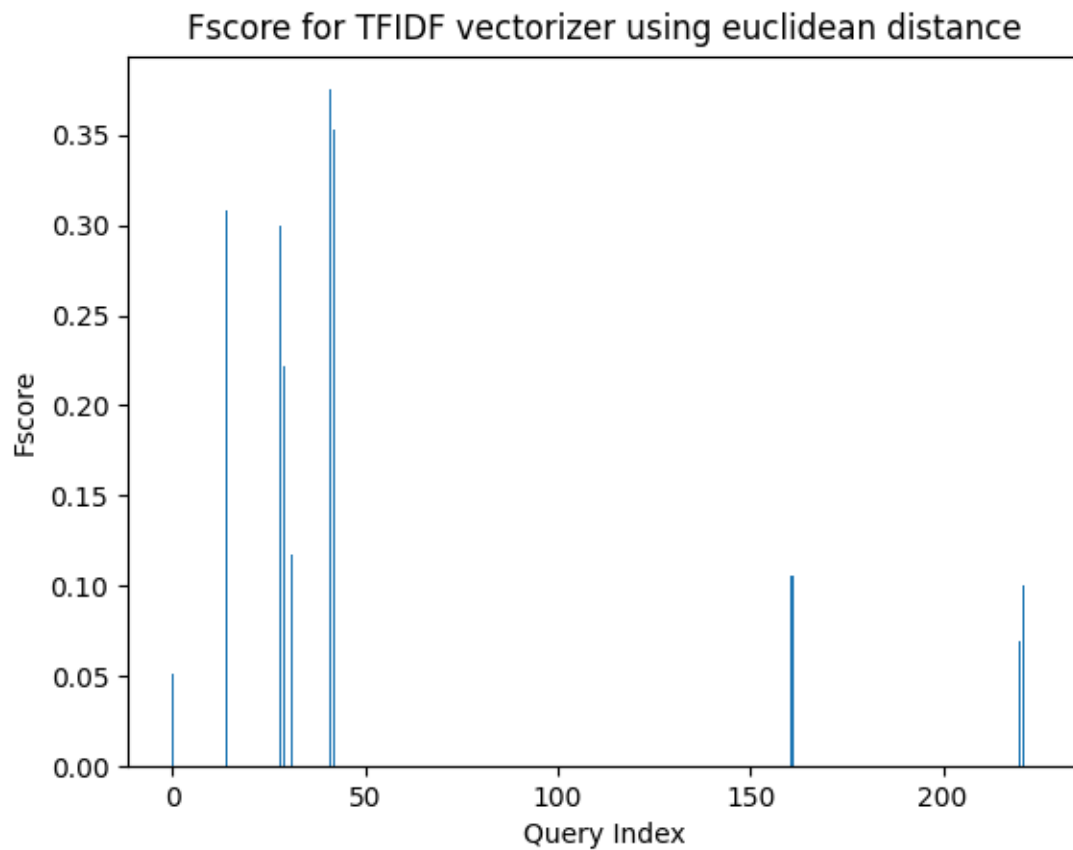
Below are the F scores that are obtained

Fscore for Binary vectorizer using cosine distance







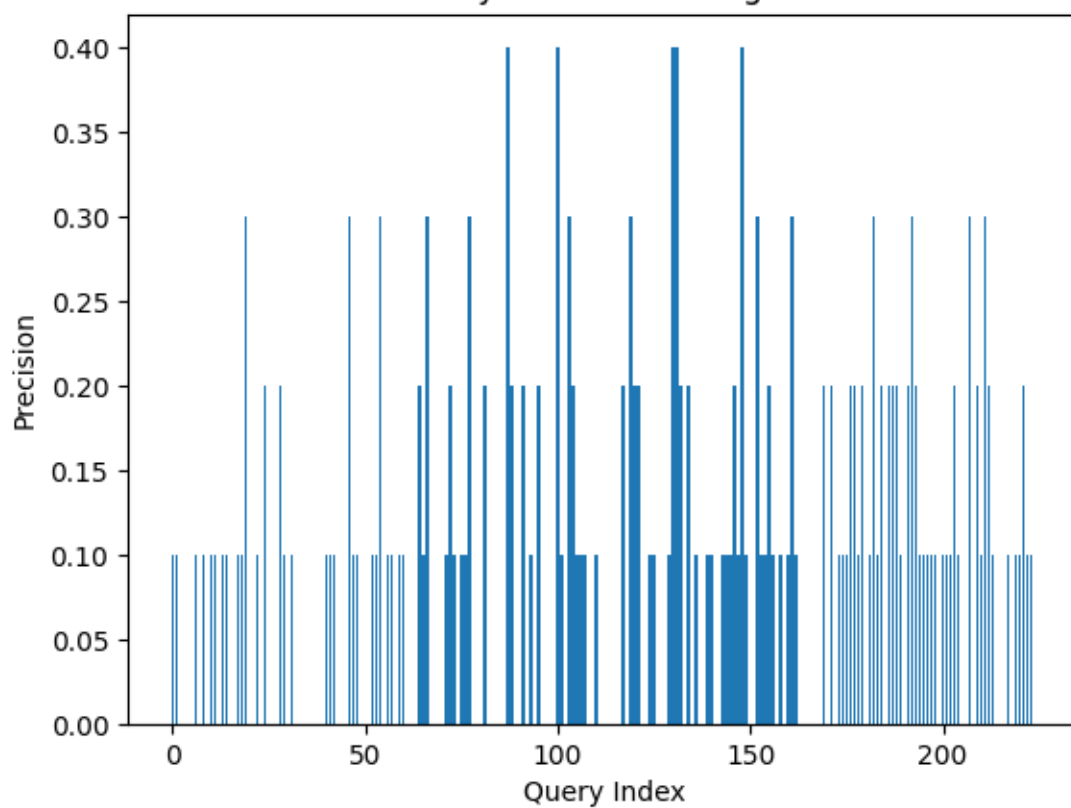


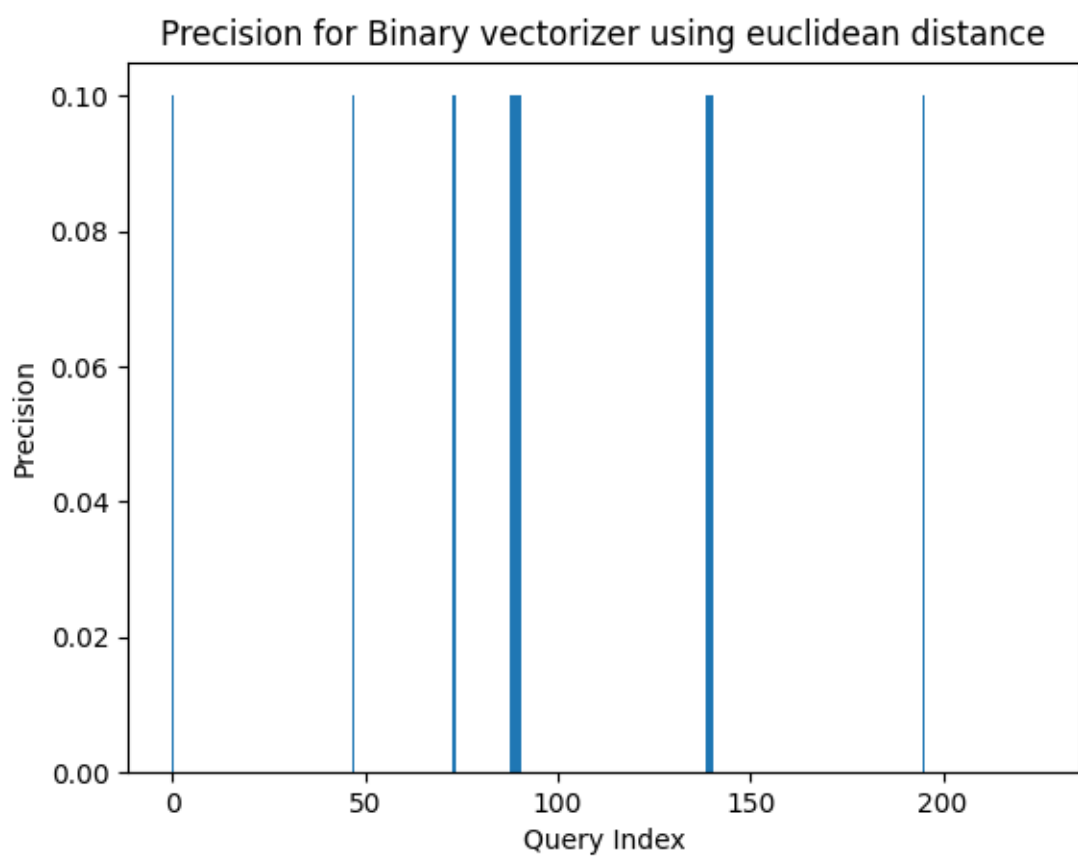
Precision:

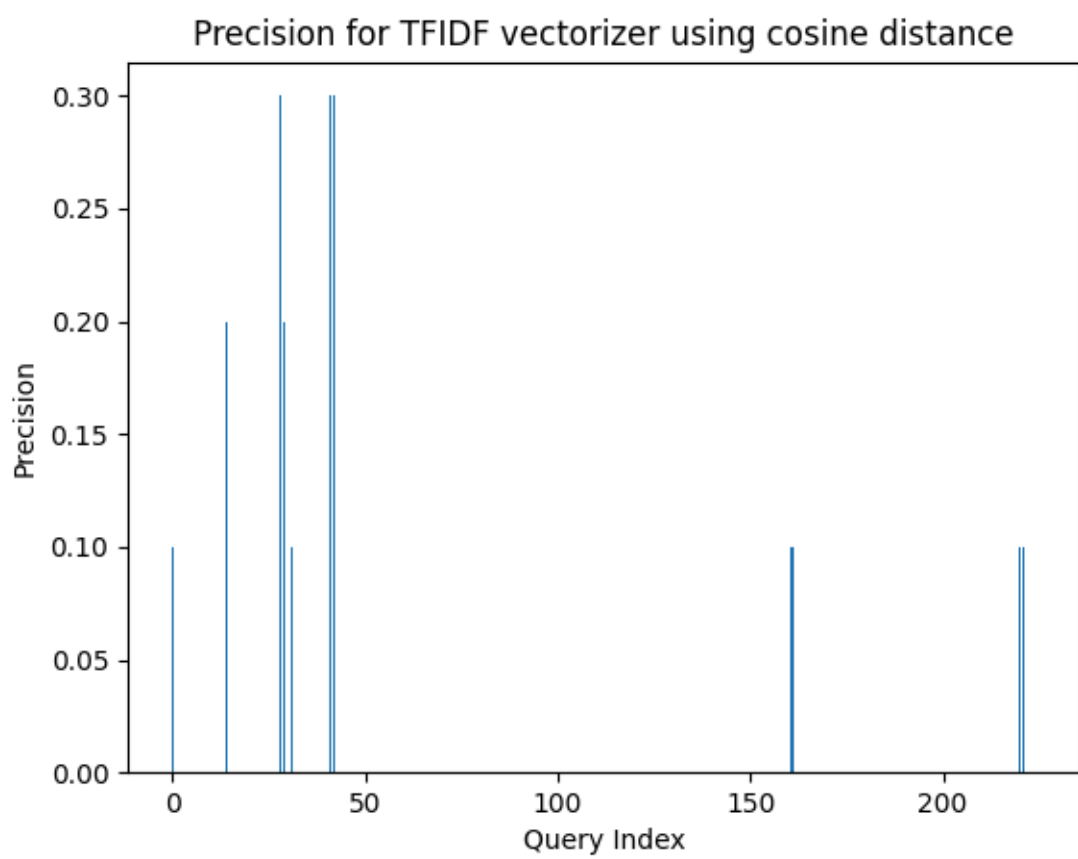
Precision is a metric used to assess the accuracy of positive predictions in classification issues. It is the proportion of actual positive observations to all positive predictions.

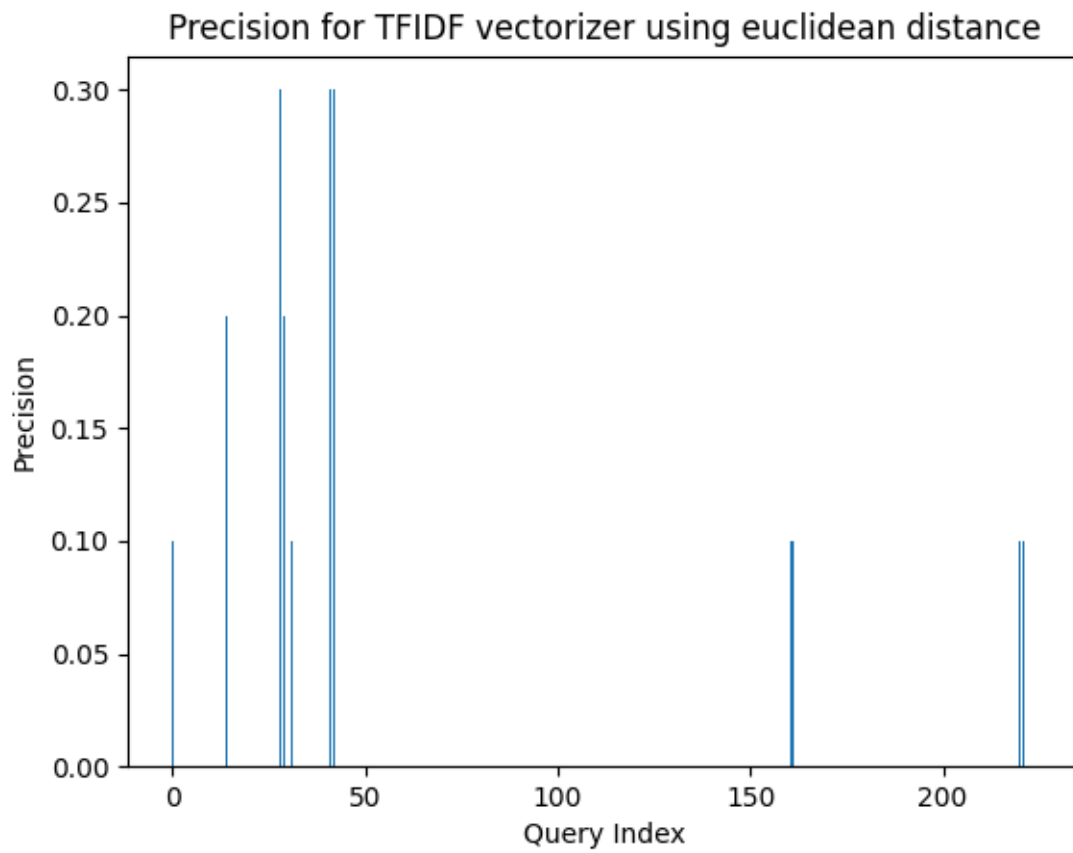
Below are the Precision Graphs

Precision for Binary vectorizer using cosine distance







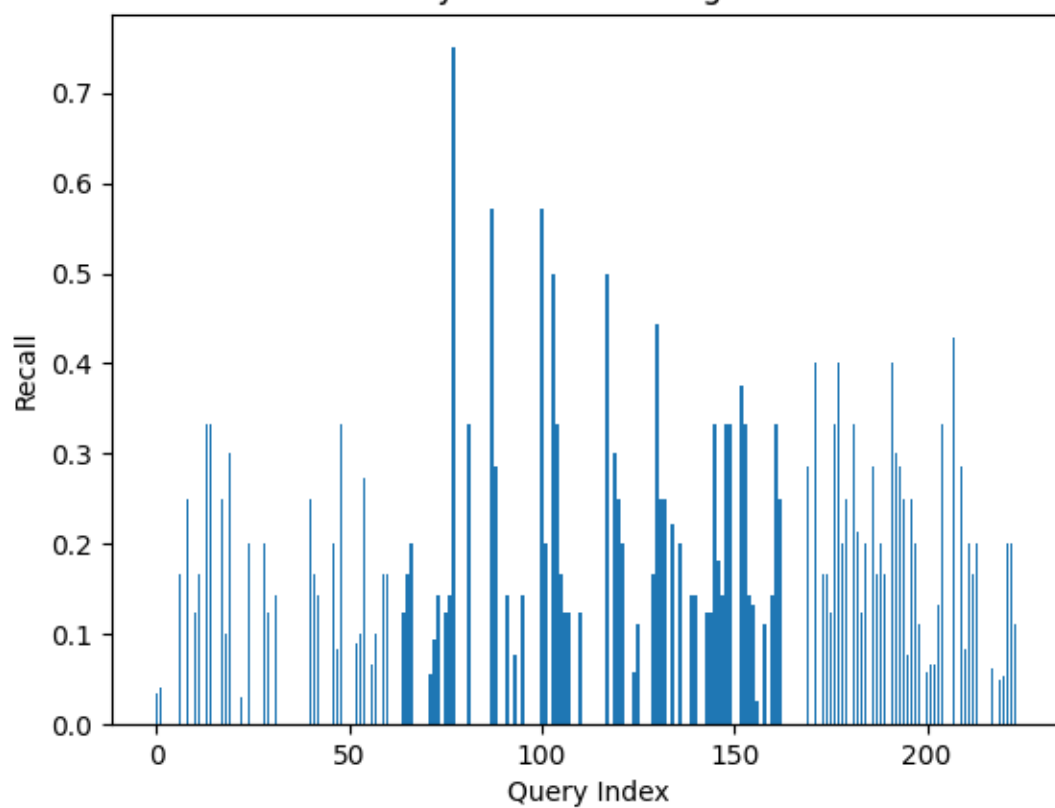


Recall:

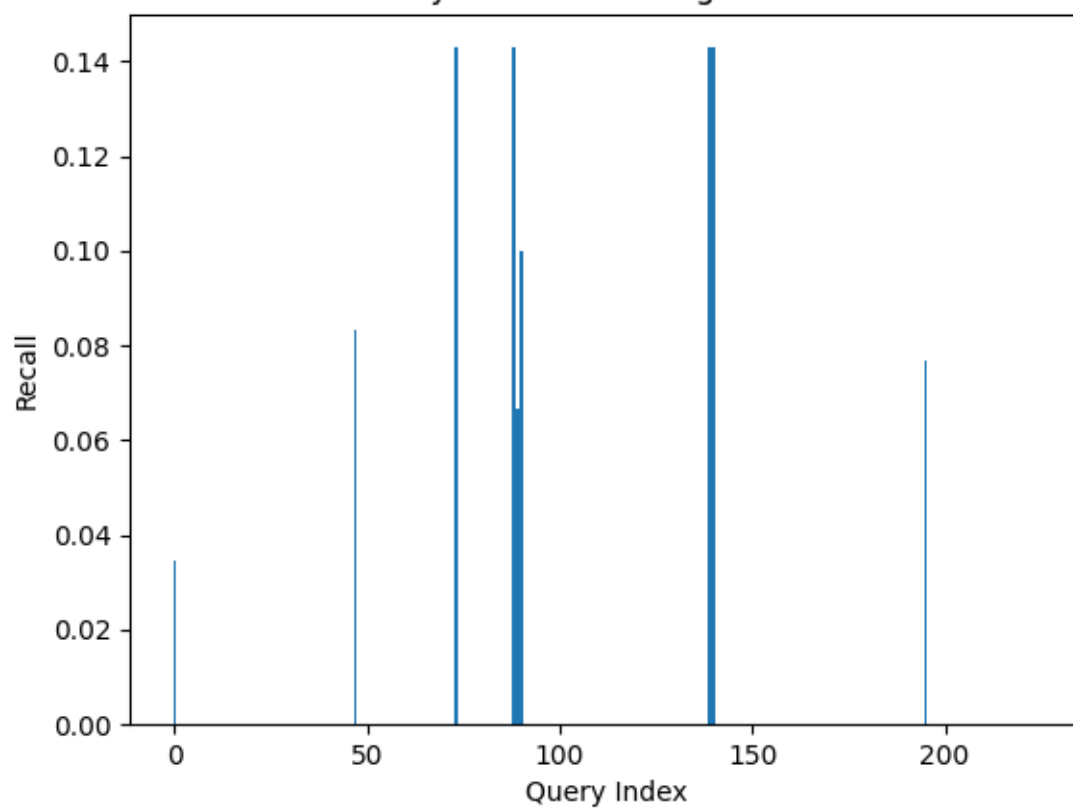
It is the proportion of real positives to all true positive observations. Stated differently, recall indicates the proportion of real positive events that the model properly detected.

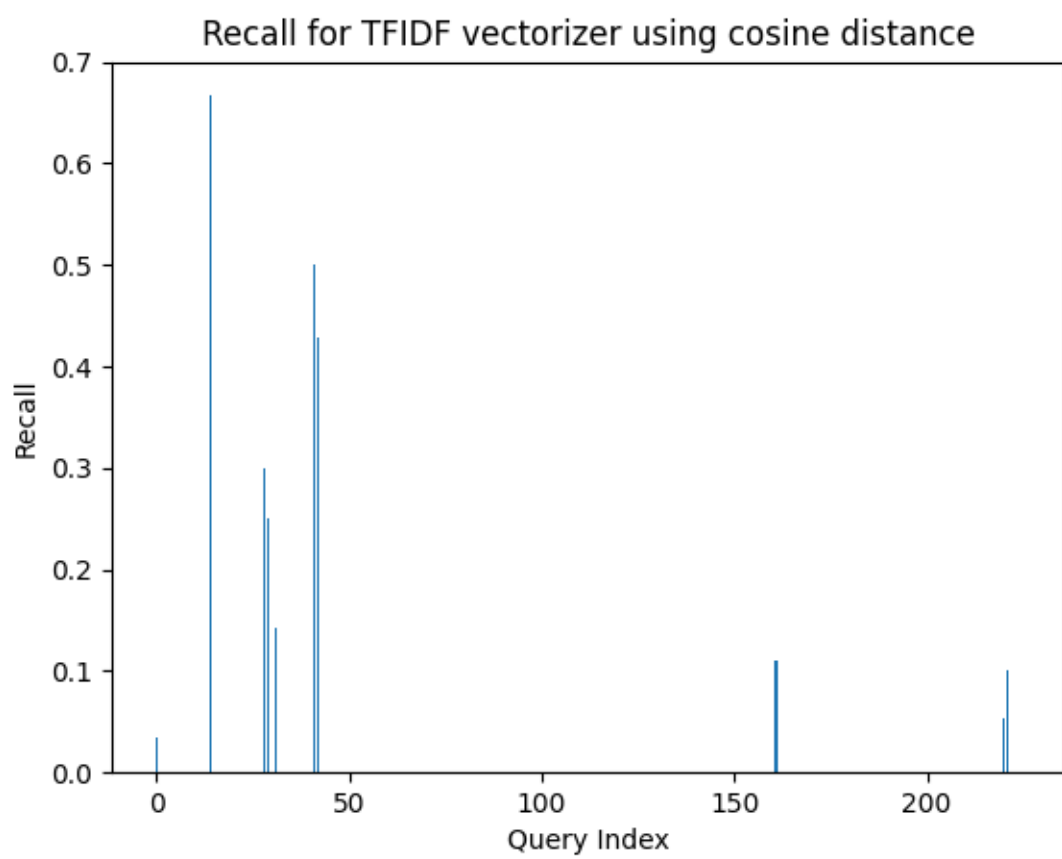
Below are the Recall Graphs:

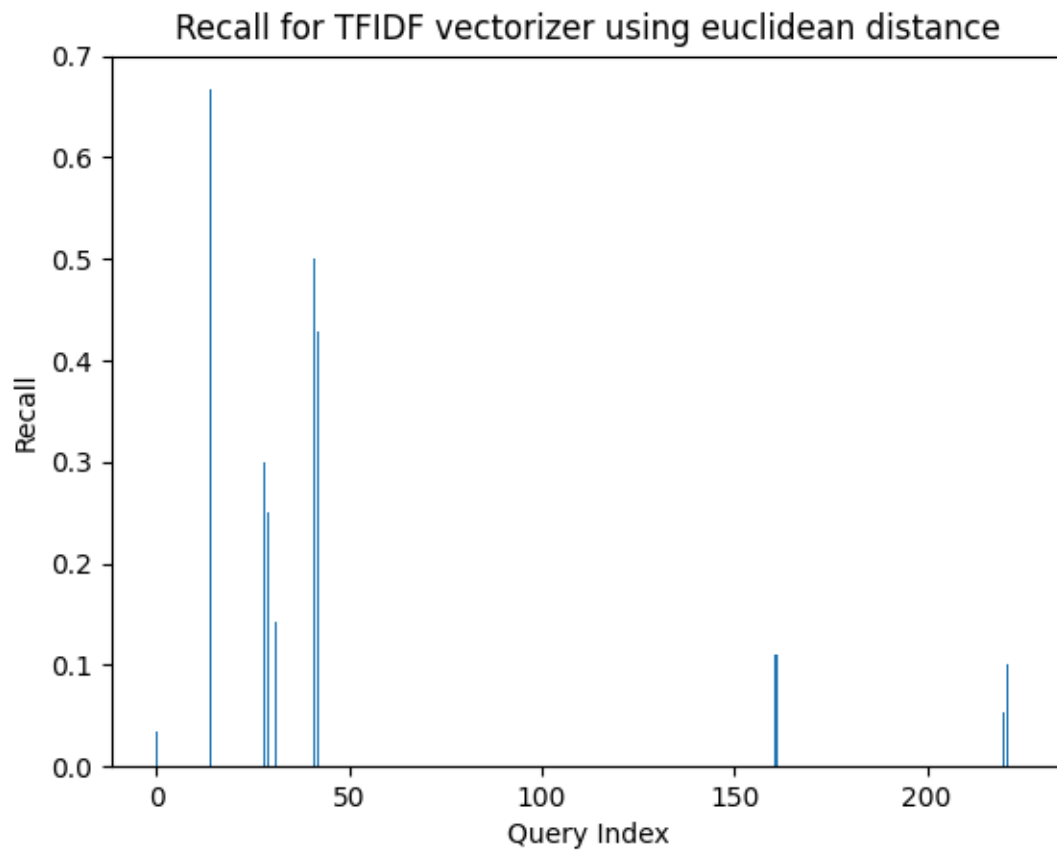
Recall for Binary vectorizer using cosine distance



Recall for Binary vectorizer using euclidean distance







Below is the Terminal Output that displays all the scores

Administrator: Command Prompt

Microsoft Windows [Version 10.0.22631.3737]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\Masters CS\Summer 2024\Assignment1

C:\Masters CS\Summer 2024\Assignment1>python assignment1.py

Binary:

f:

cos: ('p': (0.087, 0.4), 'r': (0.114, 0.8), 'f': (0.094, 0.5),)
euc: ('p': (0.004, 0.1), 'r': (0.004, 0.1), 'f': (0.004, 0.1),)

p:

cos: ('p': (0.087, 0.4), 'r': (0.114, 0.8), 'f': (0.094, 0.5),)
euc: ('p': (0.004, 0.1), 'r': (0.004, 0.1), 'f': (0.004, 0.1),)

r:

cos: ('p': (0.114, 0.8), 'r': (0.087, 0.4), 'f': (0.094, 0.5),)
euc: ('p': (0.004, 0.1), 'r': (0.004, 0.1), 'f': (0.004, 0.1),)

TFIDF:

f:

cos: ('p': (0.008, 0.3), 'r': (0.011, 0.7), 'f': (0.009, 0.4),)
euc: ('p': (0.008, 0.3), 'r': (0.011, 0.7), 'f': (0.009, 0.4),)

p:

cos: ('p': (0.008, 0.3), 'r': (0.011, 0.7), 'f': (0.009, 0.4),)
euc: ('p': (0.008, 0.3), 'r': (0.011, 0.7), 'f': (0.009, 0.4),)

r:

cos: ('p': (0.011, 0.7), 'r': (0.008, 0.3), 'f': (0.009, 0.4),)
euc: ('p': (0.011, 0.7), 'r': (0.008, 0.3), 'f': (0.009, 0.4),)

C:\Masters CS\Summer 2024\Assignment1>