

## Day-26[2211cs020206]

```
In [1]: 1 from sklearn.feature_extraction.text import TfidfVectorizer
2 from sklearn.metrics.pairwise import cosine_similarity
3 string1 = "Once upon a time in a small village, there lived a young girl"
4 string2 = "Alice loved exploring the woods and discovering new things."
5 vectorizer = TfidfVectorizer()
6 tfidf_matrix = vectorizer.fit_transform([string1, string2])
7 cosine_sim = cosine_similarity(tfidf_matrix[0:1], tfidf_matrix[1:2])
8 print(f"Cosine Similarity: {cosine_sim[0][0]}")
```

Cosine Similarity: 0.051171029771728015

In [ ]:

1