

<https://www.kaggle.com/code/hafiznouman786/duplicate-question-pair>

1. Adding more features:
  - a. Length of Questions
  - b. Number of Words in Both Questions
  - c. Number of Common words
  - d. Number of Total Words
  - e. Word Share Calculation ::  $\text{Word Share} = (\text{word common})/(\text{word total})$
2. Data Viz
3. Data Prep
4. NLTK packages and Lemmatization
5. Word2Vec
6. LSTM ( RNN)
7. Model Training

<https://www.kaggle.com/code/currie32/predicting-similarity-tfidfvectorizer-doc2vec>

- 1) Data Pre-processing
- 2) Method1 -> TFIDF – Use Cosine similarity to determine if 2 questions are similar
- 3) Method2 -> Doc2Vec - Precision, Recall, F1 Score

<https://www.kaggle.com/code/arath2/predictive-modelling-a-simple-approach>

Judgment based on common words present in both sentences.

Models Used:

- 1) Predictive Modelling – Baseline Model
- 2) Logistic Regression
- 3) Decision Trees
- 4) Random Forest

Extra Idea: Removing stopwords for improved accuracy.

Research Paper:

Bilateral Multi-Perspective Matching (BiMPM) Model.