

Assignment_9(Decision Tree on Donors choose dataset)

1 message

Applied AI Course <team@appliedaicourse.com> To: SuGuru <sugurunaresh111@gmail.com>

Sat, 17 Aug, 2019 at 00:47

Hi SuGuru,

Please go through this reference vectorization (https://colab.research.google.com/drive/1jBdNJdy047mXt505PXM_RAHizGq8muLe)

```
1 # S = ["abc def pqr", "def def def abc", "pqr pqr def"]
       2 tfidf model = TfidfVectorizer()
       3 tfidf_model.fit(preprocessed_essays)
      # we are converting a dictionary with word as a key, and the idf as a value dictionary = dict(zip(tfidf_model.get_feature_names(), list(tfidf_model.idf_)))
       6 tfidf_words = set(tfidf_model.get_feature_names())
       1 # average Word2Vec
      2 # compute average word2vec for each review.
3 tfidf_w2v_vectors = []; # the avg-w2v for each sentence/review is stored in this li
       4 for sentence in tqdm(preprocessed_essays): # for each review/sentence
                             vector = np.zeros(300) # as word vectors are of zero length
                             tf_idf_weight =0; # num of words with a valid vector in the sentence/review
for word in sentence.split(): # for each word in a review/sentence
                                           word in sentence.spirt(): # for each word in a review sentence
if (word in glove_words) and (word in tfidf_words):
    vec = model[word] # getting the vector for each word
    # here we are multiplying idf value(dictionary[word]) and the tf value(
    tf_idf = dictionary[word]*(sentence.count(word)/len(sentence.split()))
      8
      9
   10
   11
                                                          vector += (vec * tf_idf) # calculating tfidf weighted w2v
tf_idf_weight += tf_idf
   12
   13
                         if tf_idf_weight != 0:
vector /= tf_idf_weight
   14
   15
                            tfidf_w2v_vectors.append(vector)
   18 print(len(tfidf_w2v_vectors))
   19 print(len(tfidf_w2v_vectors[0]))
L00% | The state of the state o
5000
```

Please fit your tf-idf vectors only on train data.

Thank you