```
from google.colab import drive
drive.mount('/content/drive')
```

```
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_
```

```
import pandas as pd

# Load dataset (assuming it's in CSV or TXT format)
df = pd.read_csv('/content/drive/MyDrive/arxiv_papers.csv')  # Update path to your file
```

```
print(df.columns)
```

```
Index(['abstract', 'author', 'date', 'pdf_url', 'title', 'pdf_text'], dtype='object')
```

```
import re
import nltk # Removed extra spaces before this line
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer

nltk.download('stopwords')
nltk.download('wordnet')

# Initialize lemmatizer and stopwords
lemmatizer = WordNetLemmatizer()
stop_words = set(stopwords.words('english'))

# Text cleaning function
def clean_text(text):
    text = re.sub(r'\W', ' ', text)  # Remove special characters
    text = re.sub(r'\s+', ' ', text)  # Remove extra spaces
    text = re.sub(r'\d+', '', text)   # Remove numbers
    text = text.lower()               # Convert to lowercase
    return text

# Apply text cleaning and lemmatization
# Replace 'text_column' with the correct column name (e.g., 'abstract')
df['cleaned_text'] = df['abstract'].apply(clean_text)  # Changed here
df['lemmatized_text'] = df['cleaned_text'].apply(lambda x: ' '.join([lemmatizer.lemmatize(word) for word in x.split() if

df[['cleaned_text', 'lemmatized_text']].head()  # Check the result
```

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data]   Package stopwords is already up-to-date!
[nltk_data] Downloading package wordnet to /root/nltk_data...
[nltk_data]   Package wordnet is already up-to-date!
```

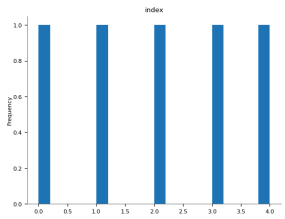
1 to 5 of 5 entries Filter

index	cleaned_text	lemmatized_text
0	we first present our view of detection and correction of syntactic errors we then introduce a new correction method based on heuristic criteria used to decide which correction should be preferred weighting of these criteria leads to a flexible and parametrable system which can adapt itself to the user a partitioning of the trees based on linguistic criteria agreement rules rather than computational criteria is then necessary we end by proposing extensions to lexical correction and to some syntactic errors our aim is an adaptable and user friendly system capable of automatic correction for some applications	first present view detection correction syntactic error introduce new correction method based heuristic criterion used decide correction preferred weighting criterion lead flexible parametrable system adapt user partitioning tree based linguistic criterion agreement rule rather computational criterion necessary end proposing extension lexical correction syntactic error aim adaptable user friendly system capable automatic correction application
1	we first present our view of detection and correction of syntactic errors we then introduce a new correction method based on heuristic criteria used to decide which correction should be preferred weighting of these criteria leads to a flexible and parametrable system which can adapt itself to the user a partitioning of the trees based on linguistic criteria agreement rules rather than computational criteria is then necessary we end by proposing extensions to lexical correction and to some syntactic errors our aim is an adaptable and user friendly system capable of automatic correction for some applications	first present view detection correction syntactic error introduce new correction method based heuristic criterion used decide correction preferred weighting criterion lead flexible parametrable system adapt user partitioning tree based linguistic criterion agreement rule rather computational criterion necessary end proposing extension lexical correction syntactic error aim adaptable user friendly system capable automatic correction application
2	the choice of modeling units is critical to automatic speech recognition asr tasks conventional asr systems typically choose context dependent states cd states or context dependent phonemes cd phonemes as their modeling units however it has been challenged by sequence to sequence attention based models which integrate an acoustic pronunciation and language model into a single neural network on english asr tasks previous attempts have already shown that the modeling unit of graphemes can outperform that of phonemes by sequence to sequence attention based model in this paper we are concerned with modeling units on mandarin chinese asr tasks using sequence to sequence attention based models with the transformer five modeling units are explored including context independent phonemes ci phonemes syllables words sub words and characters experiments on hkust datasets demonstrate that the lexicon free modeling units can outperform lexicon related modeling units in terms of character error rate cer among five modeling units character based model performs best and establishes a new state of the art cer of on hkust datasets without a hand designed lexicon and an extra language model integration which corresponds to a relative improvement over the existing best cer of by the joint ctc attention based encoder decoder network	choice modeling unit critical automatic speech recognition asr task conventional asr system typically choose context dependent state cd state context dependent phoneme cd phoneme modeling unit however challenged sequence sequence attention based model integrate acoustic pronunciation language model single neural network english asr task previous attempt already shown modeling unit grapheme outperform phoneme sequence sequence attention based model paper concerned modeling unit mandarin chinese asr task using sequence sequence attention based model transformer five modeling unit explored including context independent phoneme ci phoneme syllable word sub word character experiment hkust datasets demonstrate lexicon free modeling unit outperform lexicon related modeling unit term character error rate cer among five modeling unit character based model performs best establishes new state art cer hkust datasets without hand designed lexicon extra language model integration corresponds relative improvement existing best cer joint ctc attention based encoder decoder network
3	why should computers interpret language incrementally in recent years psycholinguistic evidence for incremental interpretation has become more and more compelling suggesting that humans perform semantic interpretation before constituent boundaries possibly word by word however possible computational applications have received less attention in this paper we consider various potential applications in particular graphical interaction and dialogue we then review the theoretical and computational tools available for mapping from fragments of sentences to fully scoped semantic representations finally we tease apart the relationship between dynamic semantics and incremental interpretation	computer interpret language incrementally recent year psycholinguistic evidence incremental interpretation become compelling suggesting human perform semantic interpretation constituent boundary possibly word word however possible computational application received le attention paper consider various potential application particular graphical interaction dialogue review theoretical computational tool available mapping fragment sentence fully scoped semantic representation finally tease apart relationship dynamic semantics incremental interpretation
4	stance detection is a classification problem in natural language processing where for a text and target pair a class result from the set favor against neither is expected it is similar to the sentiment analysis problem but instead of the sentiment of the text author the stance expressed for a particular target is investigated in stance detection in this paper we present a stance detection tweet data set for turkish comprising stance annotations of these tweets for two popular sports clubs as targets additionally we provide the evaluation results of svm classifiers for each target on this data set where the classifiers use unigram bigram and hashtag features this study is significant as it presents one of the initial stance detection data sets proposed so far and the first one for turkish language to the best of our knowledge the data set and the evaluation results of the corresponding svm based approaches will form plausible baselines for the comparison of future studies on stance detection	stance detection classification problem natural language processing text target pair class result set favor neither expected similar sentiment analysis problem instead sentiment text author stance expressed particular target investigated stance detection paper present stance detection tweet data set turkish comprising stance annotation tweet two popular sport club target additionally provide evaluation result svm classifier target data set classifier use unigram bigram hashtag feature study significant present one initial stance detection data set proposed far first one turkish language best knowledge data set evaluation result corresponding svm based approach form plausible baseline comparison future study stance detection

Show 25 per page

Like what you see? Visit the data table notebook to learn more about interactive tables.

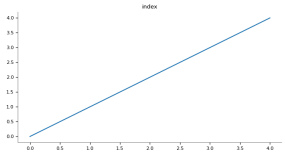
Distributions



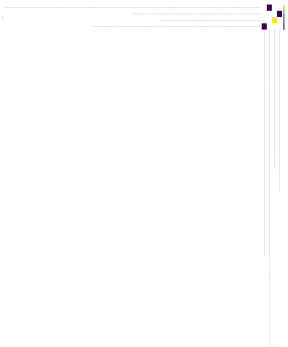
Categorical distributions

Time series

Values



2-d categorical distributions



Faceted distributions

```
<string>:5: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to
```

```
import gensim.downloader as api

# Download pre-trained GloVe model
glove_model = api.load('glove-wiki-gigaword-100')

# Convert words into vectors using GloVe
def get_vector(text):
    return [glove_model[word] for word in text.split() if word in glove_model]

df['word_vectors'] = df['lemmatized_text'].apply(get_vector)
df[['lemmatized_text', 'word_vectors']].head()
```

==========] 100.0% 128.1/128.1MB downloaded

1 to 5 of 5 entries Filter

word_vectors
5363 0.16576 0.094826 0.087456 0.79498 0.20762 -0.58127 -0.077115 0.19662 -0.40312
982 0.0039022 0.73646 0.39023 -0.097257 -0.17307 0.63939 -0.28145 0.11622 0.67527
2301 -0.27931 0.46076 0.12461 -0.72262 0.73386 0.12163 0.23468 0.037115 0.12662
405 0.11521 -0.57071 0.18036 0.42331 0.041353 0.36782 0.26287 0.47149 -0.83604 0.33438
3712 0.3284 0.86322 -0.45689 -3.1522 -0.53969 0.033392 1.5954 0.7581 -0.52425 0.61545
4 -0.29942 -0.0040878 0.39697 0.022105 -0.12852 -0.11692 0.1899 -0.19811 -0.4304
2717 -0.25134 -1.2143 -0.40294 0.51429 0.1677 -0.31839 0.38681 -1.4578 -0.43424 0.39687
226 0.0056424 0.037021 -0.19116 0.31763 -0.74249 -0.097248 -0.19801 0.062608 0.28386
6213 0.46284 0.23267 -0.21188 0.051022 -0.28305 0.39192 0.13012 0.071752 -0.18406
19 0.62453 -0.55918 0.19213 -0.017218 -0.55026 -0.02437 -0.34945 -0.40632 0.33808
703 0.54926 0.009388 0.49106 -0.17067 0.16493 0.32655 0.072014 -0.19438 0.10654
33 -0.20617 -0.12397 -0.47928 -0.04128 0.34817 -0.14162 0.38493 0.11754 0.037054
051 0.42736 -0.30208 0.70955 0.7739 -0.020319 -2.2776 -0.39541 -0.62158 1.0597 0.18122
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36 -0.155 -0.35937 -0.28062 -0.79322 -0.40449 -0.23335 0.33136 -0.10282 0.26363 -1.0878
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4198 0.80793 -0.053227 0.16255 0.95487 -0.025891 -2.6606 0.98695 -0.24084 1.5639
762 0.11912 -0.29186 0.68243 -0.01434 0.39927 0.20091 -0.57618 -0.070579 0.18856
22 -0.25709 -0.58333 0.29185 0.273 -0.28787 -0.50158 0.064233 0.48085 -0.22113 0.1687
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82 0.49473 -0.93882 0.29924 0.60475 -0.18593 0.31074 0.26725 0.09804 0.46036 -0.40026
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2 3.1806e-01 -1.9812e-01 3.0009e-01 6.9189e-02 5.4470e-01 -5.9193e-01 5.4221e-01
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-5.2622e-01 3.7687e-01 -1.8007e-01 3.0166e-02 -9.4577e-02 1.6330e-01 5.9041e-01
0 1.3113e-01 -8.0386e-02 1.8978e+00 1.8857e-01 -5.7300e-01 8.6358e-01 2.1116e-03

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-01 -5.2407e-01 -5.3341e-01 4.0460e-02 -1.6659e-01 4.5481e-01 -3.4785e-01 2.4926e-01
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-2.0371e-01 3.9182e-01 -9.5175e-01 -6.2779e-01 1.7753e-01 -3.5282e-02 -1.2463e-01
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1.3546e+00 -1.4522e-01 -1.9501e-01 -6.8654e-01 -9.6186e-02 -5.0487e-01 -1.0144e+00
6.6473e-01 3.3144e-01 -6.2283e-01 -1.1496e-01 -6.0323e-01 -4.6632e-01 -1.7908e-01
-1.1826e+00 -6.0126e-01 -1.8759e+00 9.2491e-01 8.7735e-01 -6.2709e-01 -2.6522e-01
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-1.5668e-01 3.0796e-01 1.0177e-01 -4.3854e-01 5.4694e-01 3.9361e-01 -4.7760e-01
-5.2972e-01 -9.9513e-01 2.8455e-01 -1.2942e-01 5.8047e-01 -7.4031e-01 8.6998e-02
7.4819e-01 4.9896e-01 4.0661e-03 -8.2775e-01 -1.1692e-01 1.4990e-01 -7.0824e-01
-2.5231e-01 -1.8832e-01 -4.2270e-01 -9.2149e-02 2.7631e-02 -8.2588e-02 2.9960e-01
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-4.1435e-01 -2.4232e-01 1.0104e-02 -3.0478e-01 7.6167e-01 -5.8977e-01 -1.7318e+00
2.6018e-01 -5.7391e-01 6.4159e-01 -1.2868e+00 -1.1137e-01 -2.3457e-01 -1.9431e-01
-4.8485e-01 -3.4645e-01 -2.7237e-01 -2.9343e-02 -6.0730e-02 7.3021e-01 -6.2835e-02
3.8247e-01],[-0.65553 0.82186 -0.5254 0.43427 -0.55407 0.4507 -0.023543 -0.49636
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'8 0.1603 0.73473 -0.6748 -0.14963 0.51751 0.41861 -0.61104 0.21484 -0.099144 -0.18276
923 0.17902 0.096812 -0.31435 0.18344 0.36754 0.68631 -0.24832 -0.75041 -0.076506
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6 -0.16722 -0.13572 -0.2349 -0.68014 -0.075462 0.1065 -0.49499 -0.89026 -0.29975
5 -0.18847 -0.45355 -0.67073 -0.61357 0.77022 -0.53632 0.50099 1.2694 -0.23321 0.059825
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3359 -0.022595 -0.25928 0.39114 -0.013548 -0.063542 0.17033 -0.040193 -0.39049 0.30852
5 0.08788 0.75593 -0.14142 -0.14726 0.25441 -0.28038 -0.53028 0.5532 -0.30458 0.24417
-0.71667 -0.59054 0.13729 ],[-0.36531 0.31785 -0.32047 0.051639 -0.12438 0.12544
365 0.43298 -0.54236 -0.51881 -0.027122 0.4441 0.44092 -0.14425 0.88506 0.45246
'519 -0.30323 0.25097 0.10618 -0.25461 -0.029241 -0.19771 -0.45984 -0.049765 0.29928
)3 0.018282 0.47727 0.46757 -0.15711 0.076616 0.32928 0.043149 -0.26667 -0.38438
917 -0.021292 0.073796 -0.76374 -0.10372 -0.9567 0.17993 0.98334 -0.098011 1.2885
507 -0.4637 2.1013 -0.32036 -0.23991 0.51333 0.33583 0.51771 1.1415 -0.25423 0.59353
)62 -0.52607 -0.4124 0.24496 -0.16256 -0.16978 -0.17633 -0.031187 0.22001 -0.83047
9 -0.65009 0.18613 -1.7722 0.62818 0.70274 0.15294 0.063443 -0.016877 -0.25586
382 -0.28579 -0.66355 -0.55221 -0.70364 0.96909 0.021153 ],[ 0.08529 -0.0055903 -0.1912
51 0.064819 -0.70309 0.58254 -0.049933 0.034436 -0.23917 0.38949 -0.43445 0.34277
)53 -0.20081 -0.49283 -0.031643 -0.1636 -0.3746 0.7337 -0.50226 -0.080984 0.22639
441 -0.282 0.40257 0.41469 0.13163 -0.18551 0.022405 -0.43969 -0.68995 0.25533 0.24839
04 0.15003 -0.78336 0.72452 -0.30329 0.1453 -0.026226 -0.16722 -0.18086 0.35468
'166 0.11224 0.46736 -0.074718 -0.57267 -0.39869 0.054894 -0.019833 -0.32769 -0.24838
5 -1.6859 0.46224 -0.52919 -0.46032 0.30148 0.45238 0.48631 -0.93454 0.38084 0.27236
0.12649 -0.914 -0.059185 -0.88719 0.25195 0.10295 0.0088782 0.32526 -0.35663 0.48893
64 0.074024 0.94933 -0.70296 -0.48627 0.13009 -0.21062 0.69776 ],[-9.1116e-01 -2.6764e-02
9.1879e-01 1.3976e-01 -2.5282e-01 1.8772e-01 -2.8782e-01 -2.7082e-01 2.3890e-01
-1.1712e-01 3.2608e-01 4.4496e-01 3.6097e-01 2.4492e-02 1.0213e-01 3.3983e-01
-4.2189e-02 2.3599e-01 1.0940e+00 -5.2097e-01 2.8728e-01 1.4847e-01 -4.2171e-01
3.6247e-01 -4.6250e-01 5.7993e-02 6.6232e-01 -2.0079e-02 7.7952e-02 -1.7472e-01
6.1372e-01 2.4143e-01 -1.7167e-01 4.6430e-01 3.6162e-01 2.2905e-01 -1.1615e-01
-1.0558e-01 -1.5059e-01 -8.9606e-02 6.9489e-02 5.4274e-01 5.3424e-01 -2.3389e+00
1.2410e+00 -1.0111e-01 -5.4936e-01 1.6074e+00 3.0479e-01 -4.2829e-02 1.2764e+00
1.3242e-01 3.0899e-01 -9.6764e-02 -6.7997e-04 4.0795e-01 5.9851e-02 3.6128e-01
1.0050e-01 4.3093e-01 1.8416e-01 -5.4541e-01 -3.4435e-01 -6.2816e-01 2.4483e-01
0 2.6900e-01 -3.3387e-02 -3.4174e-01 1.6189e-01 5.6689e-02 -1.9263e-01 8.3543e-02
-2.3674e-01 -5.4159e-02 -5.8901e-01 -6.1390e-01 1.1305e+00 5.1607e-01],[ 0.10404
95 0.026498 -0.25053 0.23908 0.46664 -0.58399 0.13708 -0.35437 -0.084445 0.08687
9 0.30906 -0.14014 -0.25594 0.14428 -0.53372 -0.25133 -0.43828 0.18881 -0.58895
'25 -0.51495 0.013099 -0.96975 0.32704 -0.44485 0.3594 -0.55081 0.17646 -0.16309
87 -1.2578 0.061788 -0.9206 -0.20293 -0.47886 -0.03832 0.27542 -0.091164 -0.47323
52 -0.13272 0.50086 -0.23059 -2.2808 0.014948 -0.63596 1.658 0.34713 -0.14633 0.82949
26 0.43288 -0.34027 0.46548 0.70521 0.18666 0.35918 0.55835 0.54192 0.27822 -1.0126
8431 -1.0313 -0.75662 0.29316 0.6694 -0.49838 0.13957 -1.8072 -0.036577 0.72382
2457 0.34798 -0.46783 0.1491 -0.060672 0.027716 0.50999 -0.533 -0.92447 0.3229
```

```
from sklearn.feature_extraction.text import CountVectorizer

# Initialize vectorizer
vectorizer = CountVectorizer()
X_bow = vectorizer.fit_transform(df['lemmatized_text'])

# Show Bag of Words output
print(X_bow.toarray())
```

```
[[0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 ...
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]]
```

```
from tensorflow.keras.preprocessing.text import one_hot # Changed the import statement

# Apply one-hot encoding
df['one_hot'] = df['lemmatized_text'].apply(lambda x: one_hot(x, n=10000))  # Specify vocab size
df[['lemmatized_text', 'one_hot']].head()
```

	lemmatized_text	one_hot
0	first present view detection correction syntac...	[8646, 4208, 7996, 5318, 5066, 3665, 494, 9810...
1	first present view detection correction syntac...	[8646, 4208, 7996, 5318, 5066, 3665, 494, 9810...
2	choice modeling unit critical automatic speech...	[970, 6414, 7232, 2834, 899, 8303, 4403, 1695,...
3	computer interpret language incrementally rece...	[825, 5118, 5908, 8703, 5736, 7228, 3125, 6034...
4	stance detection classification problem natura...	[9960, 5318, 8918, 7445, 3564, 5908, 4046, 256...

```
nltk.download('averaged_perceptron_tagger')

# Apply POS tagging
df['pos_tags'] = df['lemmatized_text'].apply(lambda x: nltk.pos_tag(x.split()))
df[['lemmatized_text', 'pos_tags']].head()
```

```
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data]     /root/nltk_data...
[nltk_data]   Unzipping taggers/averaged_perceptron_tagger.zip.
```

	lemmatized_text	pos_tags
0	first present view detection correction syntac...	[(first, JJ), (present, JJ), (view, NN), (dete...
1	first present view detection correction syntac...	[(first, JJ), (present, JJ), (view, NN), (dete...
2	choice modeling unit critical automatic speech...	[(choice, NN), (modeling, VBG), (unit, NN), (c...
3	computer interpret language incrementally rece...	[(computer, NN), (interpret, JJ), (language, N...
4	stance detection classification problem natura...	[(stance, NN), (detection, NN), (classificatio...

```
from textblob import TextBlob

# Sentiment analysis using TextBlob
df['sentiment'] = df['lemmatized_text'].apply(lambda x: TextBlob(x).sentiment.polarity)
df[['lemmatized_text', 'sentiment']].head()
```

	lemmatized_text	sentiment
0	first present view detection correction syntac...	0.151623
1	first present view detection correction syntac...	0.151623
2	choice modeling unit critical automatic speech...	0.132583
3	computer interpret language incrementally rece...	0.072222
4	stance detection classification problem natura...	0.213690

```
import spacy

# Load the English NLP model from spaCy
nlp = spacy.load('en_core_web_sm')

# Apply Named Entity Recognition
df['ner'] = df['lemmatized_text'].apply(lambda x: [(ent.text, ent.label_) for ent in nlp(x).ents])
df[['lemmatized_text', 'ner']].head()
```