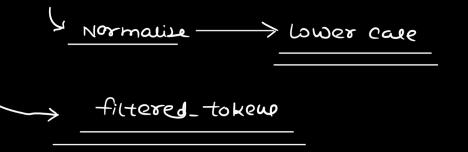


['Natural Language Processing (NLP) is a field that combines computer science, artificial intelligence and language studies.', 'It helps computers understand, process and create human language in a way that makes sense and is useful.', 'With the growing amount of text data from social media, websites and other sources, NLP is becoming a key tool to gain insights and automate tasks like analyzing text or translating languages.']

## word tolerenization

['Natural', 'Language', 'Processing', '(', 'NLP', ')', 'is', 'a', 'field', 'that', 'combines', 'computer', 'science', ',', 'artificial', 'intelligence', 'and', 'language', 'studies', '.', 'It', 'helps', 'computers', 'understand', ',', 'process', 'and', 'create', 'human', 'language', 'in', 'a', 'way', 'that', 'makes', 'sense', 'and', 'is', 'useful', '.', 'With', 'the', 'growing', 'amount', 'of', 'text', 'data', 'from', 'social', 'media', ',', 'websites', 'and', 'other', 'sources', ',', 'NLP', 'is', 'becoming', 'a', 'key', 'tool', 'to', 'gain', 'insights', 'and', 'automate', 'tasks', 'like', 'analyzing', 'text', 'or', 'translating', 'languages', '.']



['natural', 'language', 'processing', 'nlp', 'field', 'combines', 'computer', 'science', 'artificial', 'intelligence', 'language', 'studies', 'helps', 'computers', 'understand', 'process', 'create', 'human', 'language', 'way', 'makes', 'sense', 'useful', 'growing', 'amount', 'text', 'data', 'social', 'media', 'websites', 'sources', 'nlp', 'becoming', 'key', 'tool', 'gain', 'insights', 'automate', 'tasks', 'like', 'analyzing', 'text', 'translating', 'languages']

<u>maga</u>

punkt\_tab in NLTK refers to a specific data package used for sentence tokenization, a process of dividing text into individual sentences. It is the modern, pickle-free replacement for the older punkt package, which utilized unsafe pickles.

['natur', 'languag', 'process', 'nlp', 'field', 'combin', 'comput', 'scienc', 'artifici', 'intellig', 'languag', 'studi', 'help', 'comput', 'understand', 'process', 'creat', 'human', 'languag', 'way', 'make', 'sens', 'use', 'grow', 'amount', 'text', 'data', 'social', 'media', 'websit', 'sourc', 'nlp', 'becom', 'key', 'tool', 'gain', 'insight', 'autom', 'task', 'like', 'analyz', 'text', 'translat', 'languag']

['natural', 'language', 'processing', 'nlp', 'field', 'combine', 'computer', 'science', 'artificial', 'intelligence', 'language',

'study', 'help', 'computer', 'understand', 'process', 'create', 'human', 'language', 'way', 'make', 'sense', 'useful', 'growing', 'amount', 'text', 'data', 'social', 'medium', 'website', 'source', 'nlp', 'becoming', 'key', 'tool', 'gain', 'insight', 'automate', 'task', 'like', 'analyzing', 'text', 'translating', 'language']

{'y', "don't", 'no', "doesn't", 'didn', "you've", 'nor', 'such', 'be', "he'll", 'itself', 'yourselves', "it'll", 'so', 'did', 'for', 'do', 'between', 'himself', 'am', 'up', 'don', "you'd", 'i', "you're", 'this', 'wouldn', 'then', 'have', 'were', 'yours', "it'd", "weren't", "wasn't", 'on', 'doesn', "she'll", 'been', "couldn't", 'hadn', 'it', 'over', "shouldn't", 'before', 'any', "needn't", "mightn't", "it's", 'against', "you'll", 'does', "she'd", "won't", 'or', "should've", 'which', "isn't", 'own', 'where', 'very', 'by', 'here', 're', 'doing', "i'd", 'as', 'her', 've', 'myself', 'with', 'at', 'same', 'when', 'won', "we're", "we've", 'we', 'until', "didn't", 'further', 'only', 'll', 'other', "i'm", "we'd", 'mightn', "shan't", 'the', 'shan', 'o', 'while', "hadn't", 'weren', 'will', 'few', 'under', 'needn', 'him', 'ma', 'isn', 'why', 'their', 'm', 'should', "they're", 'those', 'most', "he's", 'shouldn', 'aren', 'above', 'haven', 'our', 'through', 'and', "i'll", "they've", 'after', 'hers', 'about', 's', 'mustn', 'off', 'again', "aren't", 'hasn', "hasn't", 'wasn', 'how', 'to', 'them', 'both', 'he', 'of', 'yourself', 'below', 'me', "he'd", 'that', "that'll", 'what', 'not', 'down', 'in', "wouldn't", 'these', 'too', 'his', 'being', 'themselves', "we'll", 'couldn', 'there', "haven't", 'now', 'out', 'd', 'who', 'more', 'theirs', "she's", 'if', 'each', 'all', 'into', "mustn't", 'was', 'than', "i've", 'during', 'because', 'an', 'having', 'its', 'they', 'ain', 'once', 'can', 'is', 'ourselves', 'you', 't', "they'll", 'ours', 'some', 'but', 'just', "they'd", 'she', 'whom', 'had', 'from', 'a', 'your', 'has', 'my', 'are', 'herself'}

Stob Morry

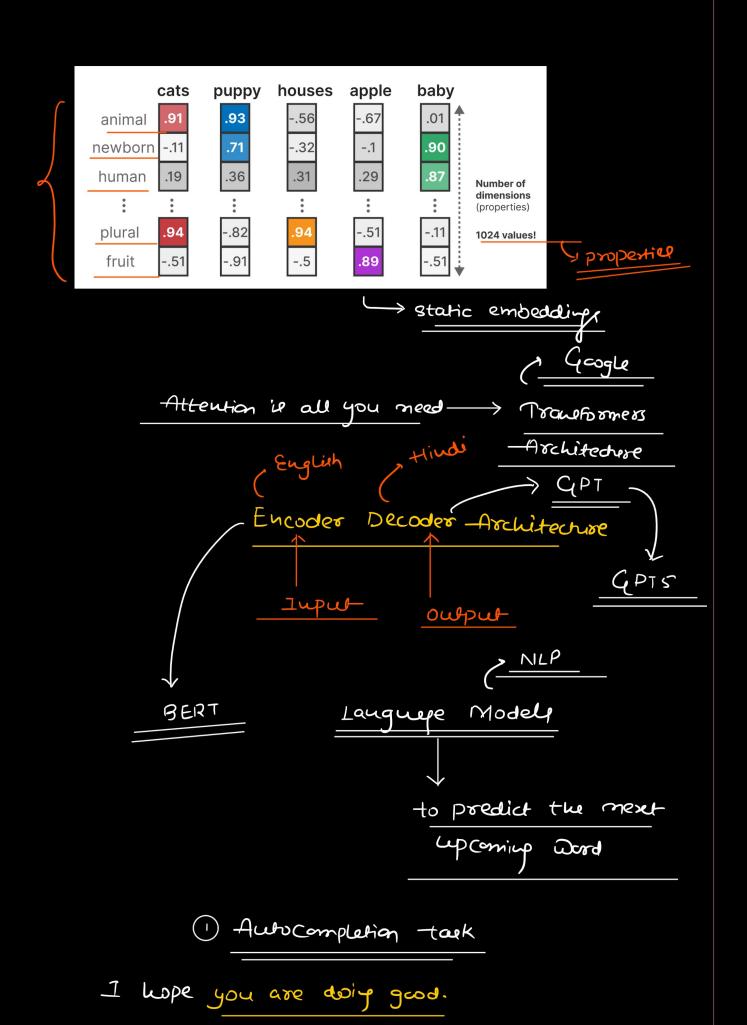
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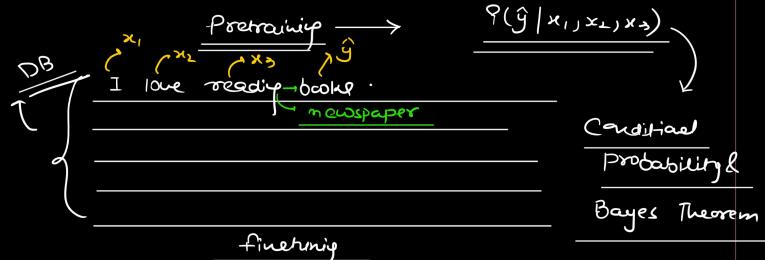
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object oriented





$$\frac{P(A|B) = P(A\cap B)}{P(B)} = \frac{P(B|A) \times P(A)}{P(B)}$$

$$\frac{P(B|A) \times P(A)}{P(B)}$$

$$\frac{P(B|A) \times P(A)}{P(A)}$$