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import stanza
from collections import Counter
import re

stanza.download("no")
nlp = stanza.Pipeline("no", processors="tokenize,pos,lemma")

stopwords = ["og", "i", "jeg", "det", "at", "en", "et", "den", "til", "er",
             "som", "på", "de", "med", "han", "av", "ikke", "om", "men", "så",
             "for"]

with open("elo_tesla.txt", "r", encoding="utf-8") as file:
    text = file.read()

text = text.lower()
text = re.sub(r"[^\w\s]", "", text)

doc = nlp(text)

lemmas = []
word_forms = []

for sentence in doc.sentences:
    for word in sentence.words:
        lemma = word.lemma
        word_form = word.text.lower()
        if lemma not in stopwords and word_form not in stopwords:
            lemmas.append(lemma)
            word_forms.append(word_form)

lemma_counts = Counter(lemmas)
word_counts = Counter(word_forms)

top_lemmas = lemma_counts.most_common(10)
top_word_forms = word_counts.most_common(10)
print("Top 10 Lemmas after Removing Stopwords:")
for word, count in top_lemmas:
    print(f"{word}: {count}")

print("\nTop 10 Word Forms after Removing Stopwords:")
for word, count in top_word_forms:
    print(f"{word}: {count}")
```