recruit   DP

June 7, 2024

DP

```
[2]: !pip install ja-ginza
```

Requirement already satisfied: ja-ginza in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (5.2.0)
Requirement already satisfied: spacy<4.0.0,>=3.4.4 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from ja-ginza)
(3.7.5)
Requirement already satisfied: sudachipy<0.7.0,>=0.6.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from ja-ginza)
(0.6.8)
Requirement already satisfied: sudachidict-core>=20210802 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from ja-ginza)
(20240409)
Requirement already satisfied: ginza<5.3.0,>=5.2.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from ja-ginza)
(5.2.0)
Requirement already satisfied: plac>=1.3.3 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
ginza<5.3.0,>=5.2.0->ja-ginza) (1.4.3)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (1.0.10)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (2.0.8)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (3.0.9)
Requirement already satisfied: thinc<8.3.0,>=8.2.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (8.2.4)

```
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (2.4.8)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (2.0.10)
Requirement already satisfied: weasel<0.5.0,>=0.1.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (0.4.1)
Requirement already satisfied: typer<1.0.0,>=0.3.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (0.12.3)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (4.66.2)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (2.31.0)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (2.7.0)
Requirement already satisfied: jinja2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (3.1.3)
Requirement already satisfied: setuptools in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (69.5.1)
Requirement already satisfied: packaging>=20.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (23.2)
Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (3.4.0)
Requirement already satisfied: numpy>=1.19.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
spacy<4.0.0,>=3.4.4->ja-ginza) (1.26.4)
Requirement already satisfied: language-data>=1.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
langcodes<4.0.0,>=3.2.0->spacy<4.0.0,>=3.4.4->ja-ginza) (1.2.0)
Requirement already satisfied: annotated-types>=0.4.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4->spacy<4.0.0,>=3.4.4->ja-ginza) (0.6.0)
Requirement already satisfied: pydantic-core==2.18.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4->spacy<4.0.0,>=3.4.4->ja-ginza) (2.18.1)
```

Requirement already satisfied: typing-extensions>=4.6.1 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4->spacy<4.0.0,>=3.4.4->ja-ginza) (4.11.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0.0,>=3.4.4->ja-ginza) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0.0,>=3.4.4->ja-ginza) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0.0,>=3.4.4->ja-ginza) (1.26.18)
Requirement already satisfied: certifi>=2017.4.17 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0.0,>=3.4.4->ja-ginza) (2024.2.2)
Requirement already satisfied: blis<0.8.0,>=0.7.8 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from thinc<8.3.0,>=8.2.2->spacy<4.0.0,>=3.4.4->ja-ginza) (0.7.11)
Requirement already satisfied: confection<1.0.0,>=0.0.1 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from thinc<8.3.0,>=8.2.2->spacy<4.0.0,>=3.4.4->ja-ginza) (0.1.5)
Requirement already satisfied: click>=8.0.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from typer<1.0.0,>=0.3.0->spacy<4.0.0,>=3.4.4->ja-ginza) (8.1.7)
Requirement already satisfied: shellingham>=1.3.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from typer<1.0.0,>=0.3.0->spacy<4.0.0,>=3.4.4->ja-ginza) (1.5.4)
Requirement already satisfied: rich>=10.11.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from typer<1.0.0,>=0.3.0->spacy<4.0.0,>=3.4.4->ja-ginza) (13.7.1)
Requirement already satisfied: cloudpathlib<1.0.0,>=0.7.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from weasel<0.5.0,>=0.1.0->spacy<4.0.0,>=3.4.4->ja-ginza) (0.18.1)
Requirement already satisfied: smart-open<8.0.0,>=5.2.1 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from weasel<0.5.0,>=0.1.0->spacy<4.0.0,>=3.4.4->ja-ginza) (7.0.4)
Requirement already satisfied: MarkupSafe>=2.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from jinja2->spacy<4.0.0,>=3.4.4->ja-ginza) (2.1.5)
Requirement already satisfied: marisa-trie>=0.7.7 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from language-data>=1.2->langcodes<4.0.0,>=3.2.0->spacy<4.0.0,>=3.4.4->ja-ginza) (1.2.0)
Requirement already satisfied: markdown-it-py>=2.2.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from rich>=10.11.0->typer<1.0.0,>=0.3.0->spacy<4.0.0,>=3.4.4->ja-ginza) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from rich>=10.11.0->typer<1.0.0,>=0.3.0->spacy<4.0.0,>=3.4.4->ja-ginza) (2.17.2)

Requirement already satisfied: wrapt in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from smart-
open<8.0.0,>=5.2.1->weasel<0.5.0,>=0.1.0->spacy<4.0.0,>=3.4.4->ja-ginza)
(1.16.0)
Requirement already satisfied: mdurl~=0.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from markdown-it-
py>=2.2.0->rich>=10.11.0->typer<1.0.0,>=0.3.0->spacy<4.0.0,>=3.4.4->ja-ginza)
(0.1.2)

0.1 1.

```
[3]: !pip install spacy
     !pip install sklearn
     !pip install python-dp
```

Requirement already satisfied: spacy in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (3.7.5)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(1.0.10)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(2.0.8)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(3.0.9)
Requirement already satisfied: thinc<8.3.0,>=8.2.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(8.2.4)
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(2.4.8)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(2.0.10)
Requirement already satisfied: weasel<0.5.0,>=0.1.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(0.4.1)
Requirement already satisfied: typer<1.0.0,>=0.3.0 in

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/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(0.12.3)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(4.66.2)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(2.31.0)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(2.7.0)
Requirement already satisfied: jinja2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(3.1.3)
Requirement already satisfied: setuptools in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(69.5.1)
Requirement already satisfied: packaging>=20.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(23.2)
Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(3.4.0)
Requirement already satisfied: numpy>=1.19.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from spacy)
(1.26.4)
Requirement already satisfied: language-data>=1.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
langcodes<4.0.0,>=3.2.0->spacy) (1.2.0)
Requirement already satisfied: annotated-types>=0.4.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4->spacy) (0.6.0)
Requirement already satisfied: pydantic-core==2.18.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4->spacy) (2.18.1)
Requirement already satisfied: typing-extensions>=4.6.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
pydantic!=1.8,!=1.8.1,<3.0.0,>=1.7.4->spacy) (4.11.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
requests<3.0.0,>=2.13.0->spacy) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
requests<3.0.0,>=2.13.0->spacy) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
requests<3.0.0,>=2.13.0->spacy) (1.26.18)
Requirement already satisfied: certifi>=2017.4.17 in
```

```
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
requests<3.0.0,>=2.13.0->spacy) (2024.2.2)
Requirement already satisfied: blis<0.8.0,>=0.7.8 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
thinc<8.3.0,>=8.2.2->spacy) (0.7.11)
Requirement already satisfied: confection<1.0.0,>=0.0.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
thinc<8.3.0,>=8.2.2->spacy) (0.1.5)
Requirement already satisfied: click>=8.0.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
typer<1.0.0,>=0.3.0->spacy) (8.1.7)
Requirement already satisfied: shellingham>=1.3.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
typer<1.0.0,>=0.3.0->spacy) (1.5.4)
Requirement already satisfied: rich>=10.11.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
typer<1.0.0,>=0.3.0->spacy) (13.7.1)
Requirement already satisfied: cloudpathlib<1.0.0,>=0.7.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
weasel<0.5.0,>=0.1.0->spacy) (0.18.1)
Requirement already satisfied: smart-open<8.0.0,>=5.2.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
weasel<0.5.0,>=0.1.0->spacy) (7.0.4)
Requirement already satisfied: MarkupSafe>=2.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
jinja2->spacy) (2.1.5)
Requirement already satisfied: marisa-trie>=0.7.7 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from language-
data>=1.2->langcodes<4.0.0,>=3.2.0->spacy) (1.2.0)
Requirement already satisfied: markdown-it-py>=2.2.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
rich>=10.11.0->typer<1.0.0,>=0.3.0->spacy) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
rich>=10.11.0->typer<1.0.0,>=0.3.0->spacy) (2.17.2)
Requirement already satisfied: wrap in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from smart-
open<8.0.0,>=5.2.1->weasel<0.5.0,>=0.1.0->spacy) (1.16.0)
Requirement already satisfied: mdurl~=0.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from markdown-it-
py>=2.2.0->rich>=10.11.0->typer<1.0.0,>=0.3.0->spacy) (0.1.2)
Collecting sklearn
  Using cached sklearn-0.0.post12.tar.gz (2.6 kB)
  Installing build dependencies … done
  Getting requirements to build wheel … error
  error: subprocess-exited-with-error

  × Getting requirements to build wheel did not run
```

successfully.
    exit code: 1
  > [15 lines of output]
      The 'sklearn' PyPI package is deprecated, use 'scikit-learn'
      rather than 'sklearn' for pip commands.

      Here is how to fix this error in the main use cases:
      - use 'pip install scikit-learn' rather than 'pip install
sklearn'
      - replace 'sklearn' by 'scikit-learn' in your pip requirements
files
          (requirements.txt, setup.py, setup.cfg, Pipfile, etc …)
      - if the 'sklearn' package is used by one of your dependencies,
          it would be great if you take some time to track which package
uses
          'sklearn' instead of 'scikit-learn' and report it to their
issue tracker
      - as a last resort, set the environment variable
          SKLEARN_ALLOW_DEPRECATED_SKLEARN_PACKAGE_INSTALL=True to avoid
this error

      More information is available at
      https://github.com/scikit-learn/sklearn-pypi-package
      [end of output]

  note: This error originates from a subprocess, and is likely not a
problem with pip.
error: subprocess-exited-with-error

× Getting requirements to build wheel did not run
successfully.
  exit code: 1
  > See above for output.

note: This error originates from a subprocess, and is likely not a
problem with pip.
Requirement already satisfied: python-dp in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (1.1.4)

0.2 2.

```python
[4]: import pandas as pd

     data_path = './data/reviews_with_sentiment.csv'

     df = pd.read_csv(data_path)
     df
```

```
[4]:                                              review sentiment
     0                                                    neutral
     1                                                    neutral
     2                                                   positive
     3                                         positive
     4                                                   positive
     …                                              …           …
     5548                             negative
     5549                                   negative
     5550                       neutral
     5551                       negative
     5552                                 …     neutral

     [5553 rows x 2 columns]
```

```python
[5]: from sklearn.feature_extraction.text import CountVectorizer
     import spacy
     import itertools
     from typing import List, Tuple
     # spaCy
     nlp = spacy.load('ja_ginza')


     #
     POS = ['ADJ', 'ADV', 'INTJ', 'PROPN', 'NOUN', 'VERB']
     MAX_TERMS_IN_DOC = 5
     NGRAM = 1
     MAX_DF = 1.0
     MIN_DF = 0.0
     NUM_VOCAB = 10000
     TOP_K = 20

     def flatten(*lists) -> list:
         res = []
         for l in list(itertools.chain.from_iterable(lists)):
             for e in l:
                 res.append(e)
         return res

     def remove_duplicates(l: List[Tuple[str, float]]) -> List[Tuple[str, float]]:
         d = {}
         for e in l:
             d[e[0]] = e[1]
         return list(d.items())


     #
     df["doc"] = [nlp(review) for review in df["review"]]
```

```
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/torch/cuda/__init__.py:118: UserWarning: CUDA initialization: CUDA
unknown error - this may be due to an incorrectly set up environment, e.g.
changing env variable CUDA_VISIBLE_DEVICES after program start. Setting the
available devices to be zero. (Triggered internally at
../c10/cuda/CUDAFunctions.cpp:108.)
  return torch._C._cuda_getDeviceCount() > 0
```

0.3 3. Bag-of-Words

```python
[6]: bows = {}
     cvs = {}

     for sentiment in df["sentiment"].unique():
         tokens = []
         for doc in df[df["sentiment"] == sentiment]["doc"]:
             similarities = [(token.similarity(doc), token.lemma_) for token in doc
      ↪if token.pos_ in POS]
             similarities = remove_duplicates(similarities)
             similarities = sorted(similarities, key=lambda sim: sim[1],
      ↪reverse=True)[:MAX_TERMS_IN_DOC]
             tokens.append([similarity[1] for similarity in similarities])

         cv = CountVectorizer(ngram_range=(1, NGRAM), max_df=MAX_DF, min_df=MIN_DF,
      ↪max_features=NUM_VOCAB)
         bows[sentiment] = cv.fit_transform(flatten(tokens)).toarray()
         cvs[sentiment] = cv
```

```
/tmp/ipykernel_972209/4107160084.py:7: UserWarning: [W008] Evaluating
Token.similarity based on empty vectors.
  similarities = [(token.similarity(doc), token.lemma_) for token in doc if
token.pos_ in POS]
```

```python
[7]: !pip install numpy
```

```
Requirement already satisfied: numpy in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (1.26.4)
```

0.4 4.

```python
[8]: from pydp.algorithms.laplacian import Count
     import numpy as np#
     vocabs = {}
     term_frequencies = {}

     for sentiment in df["sentiment"].unique():
         bow = bows[sentiment]
         cv = cvs[sentiment]
```

```
    vocab = cv.vocabulary_
    term_frequency = np.sum(bow, axis=0)
    vocabs[sentiment] = vocab
    term_frequencies[sentiment] = term_frequency

    indices_topk = np.argsort(term_frequency)[::-1][:TOP_K]
    bow_topk = np.take(bow, indices_topk, axis=1)
    reverse_vocab = {vocab[k]: k for k in vocab.keys()}
    words = [reverse_vocab[i] for i in indices_topk]

    print(sentiment, ":")
    for w, c in zip(words, term_frequency[indices_topk]):
        print(w, ":", c)
```

```
neutral :
  : 216
  : 93
  : 67
  : 60
  : 59
  : 50
  : 47
  : 45
  : 43
  : 43
   : 34
   : 32
  : 30
  : 27
  : 27
  : 25
  : 25
  : 23
  : 22
  : 21
positive :
  : 463
  : 315
   : 206
  : 198
  : 193
  : 181
  : 175
  : 144
  : 141
  : 140
```

```
      : 124
      : 106
      : 102
      : 99
      : 96
      : 90
      : 90
      : 87
      : 84
      : 80
negative :
      : 99
      : 97
      : 48
      : 42
      : 39
      : 36
      : 34
      : 33
      : 27
      : 24
      : 22
      : 19
      : 16
      : 16
      : 16
      : 16
      : 15
      : 15
      : 15
      : 14
```

0.5 5.

```python
[9]: from pydp.algorithms.laplacian import Count

def preprocess_for_private_counts(tf: np.ndarray) -> List[np.ndarray]:
    repeated_words = []
    for i, term in enumerate(tf):
        repeated_words.append(np.repeat(i, term))
    return repeated_words

def cal_private_count(epsilon: float, max_partition_contributed: float,
 max_contributions_per_partition: float, repeated_words: List[np.ndarray]) ->
 List[int]:
    private_counts = []
    for repeated_word in repeated_words:
```

```python
        counter = Count(epsilon, max_partition_contributed,␣
↪max_contributions_per_partition)
        count = counter.quick_result(repeated_word)
        private_counts.append(count)
    return private_counts

def top_k_words_and_counts(k: int, tf: np.ndarray, vocab: dict) ->␣
↪List[Tuple[str, int]]:
    indices_topk = np.argsort(tf)[::-1][:k]
    reverse_vocab = {vocab[key]: key for key in vocab.keys()}
    words = [reverse_vocab[i] for i in indices_topk]
    counts = [tf[i] for i in indices_topk]
    return list(zip(words, counts))

epsilons = [0.01, 0.05, 0.1, 0.3, 0.7, 1.0, 2.0, 3.0, 7.0, 10.0]
MAX_DUPLICATED_TERMS = 1

#
results = {sentiment: {"no DP": None, **{eps: None for eps in epsilons}} for␣
↪sentiment in df["sentiment"].unique()}

for eps in epsilons:
    print(" : ", eps)
    for sentiment in df["sentiment"].unique():
        repeated_words =␣
↪preprocess_for_private_counts(term_frequencies[sentiment])
        print(repeated_words)
        private_counts = cal_private_count(eps, MAX_TERMS_IN_DOC,␣
↪MAX_DUPLICATED_TERMS, repeated_words)
        words_and_counts = top_k_words_and_counts(TOP_K, private_counts,␣
↪vocabs[sentiment])
        results[sentiment][eps] = words_and_counts
        print(sentiment, ":")
        print(words_and_counts)

#
for sentiment in df["sentiment"].unique():
    words_and_counts = top_k_words_and_counts(TOP_K,␣
↪term_frequencies[sentiment], vocabs[sentiment])
    results[sentiment]["no DP"] = words_and_counts
```

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0.6   6.

```python
def display_results(results):
    for sentiment, data in results.items():
        print(f"\nSentiment: {sentiment}\n")
        df = pd.DataFrame(columns=["rank", "word", "count"] + [f"={eps}" for
    ↪eps in epsilons])
        for rank, (word, count) in enumerate(data["no DP"], start=1):
            row = {"rank": rank, "word": word, "count": count}
            for eps in epsilons:
                if eps in data and rank <= len(data[eps]):
                    row[f"={eps}"] = data[eps][rank-1][1] if rank-1 <
    ↪len(data[eps]) else None
            df = pd.concat([df, pd.DataFrame([row])], ignore_index=True)
        print(df)

display_results(results)
```

```
Sentiment: neutral

    rank word count  =0.01  =0.05  =0.1  =0.3  =0.7  =1.0  =2.0  =3.0  =7.0  \
0      1       216   3065    738   344   208   224   215   217   216   217
1      2        93   2873    676   289    97    92    84    86    97    92
2      3        67   2715    653   287    96    89    72    62    64    66
3      4        60   2434    634   254    88    70    59    58    60    62
4      5        59   2306    509   242    85    63    54    58    58    60
5      6        50   2134    483   236    81    60    52    51    51    50
6      7        47   2019    469   226    75    57    47    47    48    48
7      8        45   1940    463   220    70    57    45    43    46    45
8      9        43   1881    430   216    69    52    45    41    43    43
9     10        43   1813    426   211    68    44    40    36    43    43
10    11        34   1664    410   207    67    40    34    35    34    32
11    12        32   1657    405   206    66    40    33    31    34    31
12    13        30   1652    385   205    65    39    32    29    31    28
13    14        27   1613    362   200    64    38    31    29    27    27
14    15        27   1597    354   199    64    37    31    27    27    26
15    16        25   1582    353   192    63    36    29    26    26    26
16    17        25   1578    343   185    61    35    29    25    25    25
```

	rank	word count	=0.01	=0.05	=0.1	=0.3	=0.7	=1.0	=2.0	=3.0	=7.0
17	18	23	1573	339	185	61	35	27	24	24	24
18	19	22	1535	337	185	61	32	27	24	24	23
19	20	21	1510	333	184	59	32	26	24	22	23

	=10.0
0	216
1	93
2	67
3	60
4	60
5	50
6	47
7	46
8	43
9	43
10	34
11	32
12	30
13	28
14	27
15	25
16	24
17	23
18	23
19	21

Sentiment: positive

	rank	word count	=0.01	=0.05	=0.1	=0.3	=0.7	=1.0	=2.0	=3.0	=7.0	\
0	1	463	3920	810	471	540	465	461	460	468	463
1	2	315	3046	677	409	314	315	315	314	309	315
2	3	206	2977	626	361	206	200	218	206	208	206
3	4	198	2906	589	328	178	196	201	201	200	198
4	5	193	2773	574	280	170	189	197	190	192	193
5	6	181	2349	572	275	168	177	173	182	186	180
6	7	175	2282	561	274	167	160	171	171	174	176
7	8	144	2254	551	252	161	147	148	147	144	144
8	9	141	2251	528	247	152	142	141	141	140	141
9	10	140	2205	491	247	134	136	136	138	138	140
10	11	124	2130	476	243	133	121	128	123	121	124
11	12	106	2095	462	237	130	110	117	109	106	106
12	13	102	2059	448	237	128	109	110	105	104	101
13	14	99	2014	438	233	123	108	101	102	98	98
14	15	96	1996	433	227	121	107	94	97	94	96
15	16	90	1980	411	226	120	106	91	90	94	90
16	17	90	1954	399	219	118	101	90	87	90	90
17	18	87	1941	395	217	116	99	89	86	89	87
18	19	84	1830	388	212	114	83	88	82	83	85

| 19 | 20 | | 80 | 1776 | 385 | 205 | 112 | 82 | 88 | 81 | 80 | 80 |

	=10.0
0	462
1	316
2	206
3	198
4	193
5	181
6	176
7	143
8	141
9	140
10	124
11	106
12	104
13	99
14	98
15	91
16	90
17	87
18	84
19	80

Sentiment: negative

	rank	word count	=0.01	=0.05	=0.1	=0.3	=0.7	=1.0	=2.0	=3.0	=7.0	\
0	1	99	3303	975	486	111	99	106	101	99	99
1	2	97	2843	671	386	102	80	90	98	98	98
2	3	48	2561	647	236	101	58	47	47	47	48
3	4	42	2430	631	232	95	57	34	43	42	41
4	5	39	2309	631	230	89	49	34	37	38	40
5	6	36	2296	623	228	80	48	33	37	35	36
6	7	34	2287	551	216	79	43	32	35	33	33
7	8	33	2272	535	209	71	42	31	29	30	31
8	9	27	2138	454	183	69	41	29	28	28	27
9	10	24	2112	415	182	67	39	29	27	26	23
10	11	22	2038	415	180	66	37	29	24	19	22
11	12	19	2017	399	177	66	36	29	22	19	20
12	13	16	1995	389	176	65	36	28	21	18	18
13	14	16	1994	383	169	61	33	28	19	17	16
14	15	16	1949	382	168	60	31	28	17	17	16
15	16	16	1947	379	158	59	31	27	17	17	16
16	17	15	1890	373	156	59	30	27	17	17	15
17	18	15	1820	356	152	55	29	25	16	16	15
18	19	15	1662	353	149	54	29	24	16	15	15
19	20	14	1625	352	148	54	29	24	16	14	14

```
      =10.0
0       100
1        97
2        48
3        42
4        39
5        36
6        34
7        33
8        27
9        25
10       21
11       18
12       17
13       16
14       16
15       16
16       16
17       16
18       15
19       15
```

0.7 7.

```
[11]: !pip install matplotlib
      !pip install seaborn
```

```
Requirement already satisfied: matplotlib in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (3.8.4)
Requirement already satisfied: contourpy>=1.0.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(1.2.1)
Requirement already satisfied: cycler>=0.10 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(4.51.0)
Requirement already satisfied: kiwisolver>=1.3.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(1.4.5)
Requirement already satisfied: numpy>=1.21 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(1.26.4)
Requirement already satisfied: packaging>=20.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(23.2)
Requirement already satisfied: pillow>=8 in
```

/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(10.3.0)
Requirement already satisfied: pyparsing>=2.3.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(3.1.2)
Requirement already satisfied: python-dateutil>=2.7 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from matplotlib)
(2.9.0.post0)
Requirement already satisfied: six>=1.5 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from python-
dateutil>=2.7->matplotlib) (1.16.0)
Requirement already satisfied: seaborn in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (0.13.2)
Requirement already satisfied: numpy!=1.24.0,>=1.20 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from seaborn)
(1.26.4)
Requirement already satisfied: pandas>=1.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from seaborn)
(2.2.2)
Requirement already satisfied: matplotlib!=3.6.1,>=3.4 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from seaborn)
(3.8.4)
Requirement already satisfied: contourpy>=1.0.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (1.2.1)
Requirement already satisfied: cycler>=0.10 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (4.51.0)
Requirement already satisfied: kiwisolver>=1.3.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (1.4.5)
Requirement already satisfied: packaging>=20.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (23.2)
Requirement already satisfied: pillow>=8 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (10.3.0)
Requirement already satisfied: pyparsing>=2.3.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (3.1.2)
Requirement already satisfied: python-dateutil>=2.7 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
matplotlib!=3.6.1,>=3.4->seaborn) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from

```
pandas>=1.2->seaborn) (2024.1)
Requirement already satisfied: tzdata>=2022.7 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from
pandas>=1.2->seaborn) (2024.1)
Requirement already satisfied: six>=1.5 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from python-
dateutil>=2.7->matplotlib!=3.6.1,>=3.4->seaborn) (1.16.0)
```

```
[12]: import matplotlib.pyplot as plt
      import matplotlib.font_manager as fm
      import numpy as np

      #
      font_path = '/usr/share/fonts/truetype/fonts-japanese-gothic.ttf'  #
      font_prop = fm.FontProperties(fname=font_path)

      def calculate_match_rate(original_top_k, dp_top_k):
          match_count = len(set(original_top_k) & set(dp_top_k))
          return match_count / len(original_top_k) if original_top_k else 0

      def plot_match_rate(results, epsilons, sentiment_label):
          top_k_values = [3, 5, 10, 20]
          match_rates = {k: [] for k in top_k_values}

          for eps in epsilons:
              for k in top_k_values:
                  original_top_k = [word for word, count in␣
       ↪results[sentiment_label]["no DP"][:k]]
                  dp_top_k = [word for word, count in results[sentiment_label][eps][:
       ↪k]]
                  match_rate = calculate_match_rate(original_top_k, dp_top_k)
                  match_rates[k].append(match_rate)

          plt.figure(figsize=(10, 6))
          for k, rates in match_rates.items():
              plt.plot(epsilons, rates, label=f'top{k}')

          plt.xlabel(' ', fontproperties=font_prop)
          plt.ylabel('  ', fontproperties=font_prop)
          plt.title(f'       ({sentiment_label})', fontproperties=font_prop)
          plt.legend(prop=font_prop)
          plt.grid(True)
          plt.show()

      epsilons = [0.01, 0.05, 0.1, 0.3, 0.7, 1.0, 2.0, 3.0, 7.0, 10.0]

      plot_match_rate(results, epsilons, 'negative')
```

```
plot_match_rate(results, epsilons, 'neutral')
plot_match_rate(results, epsilons, 'positive')
```

元上位単語との一致率 (negative)

元上位単語との一致率 (neutral)

元上位単語との一致率 (positive)
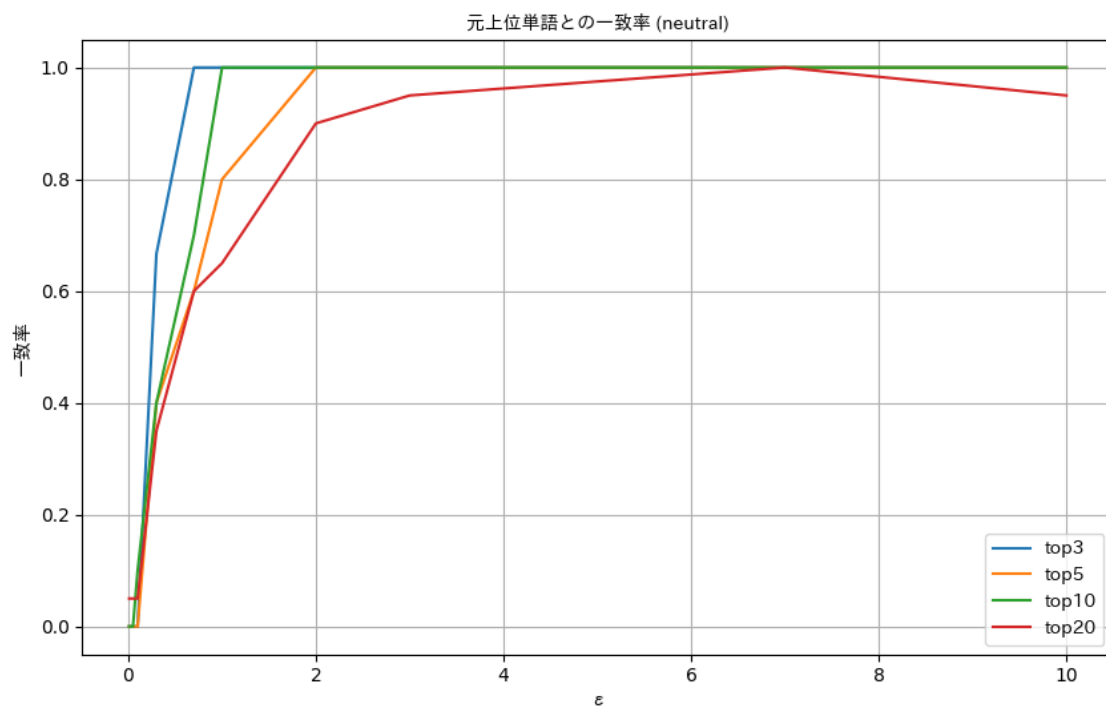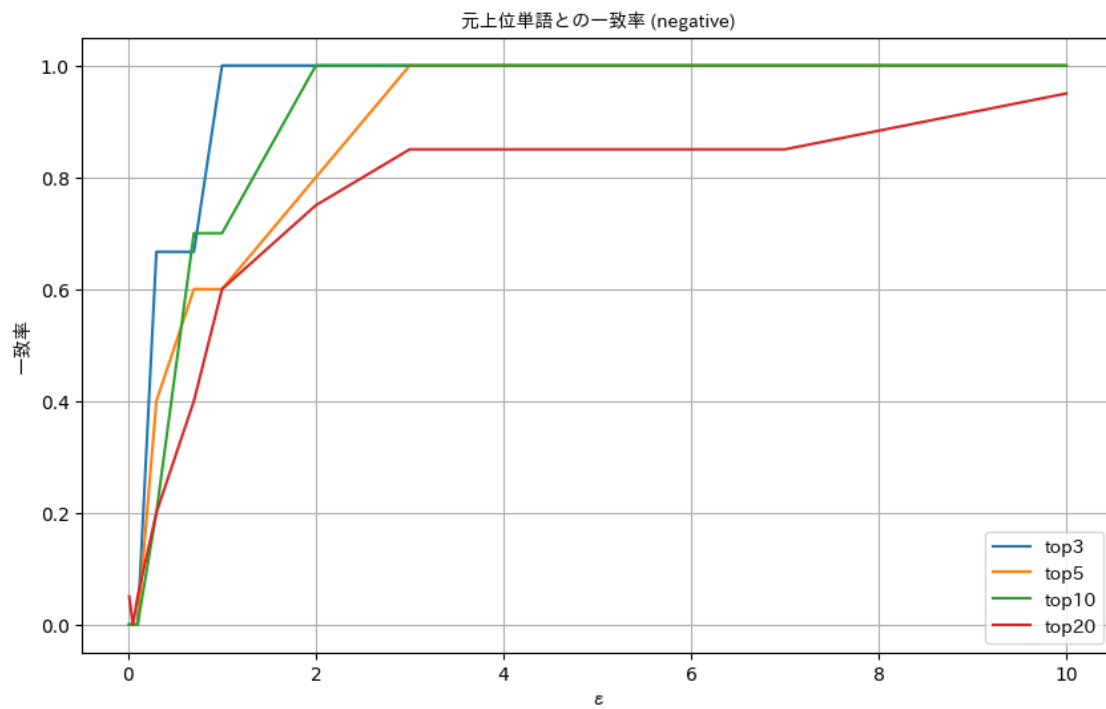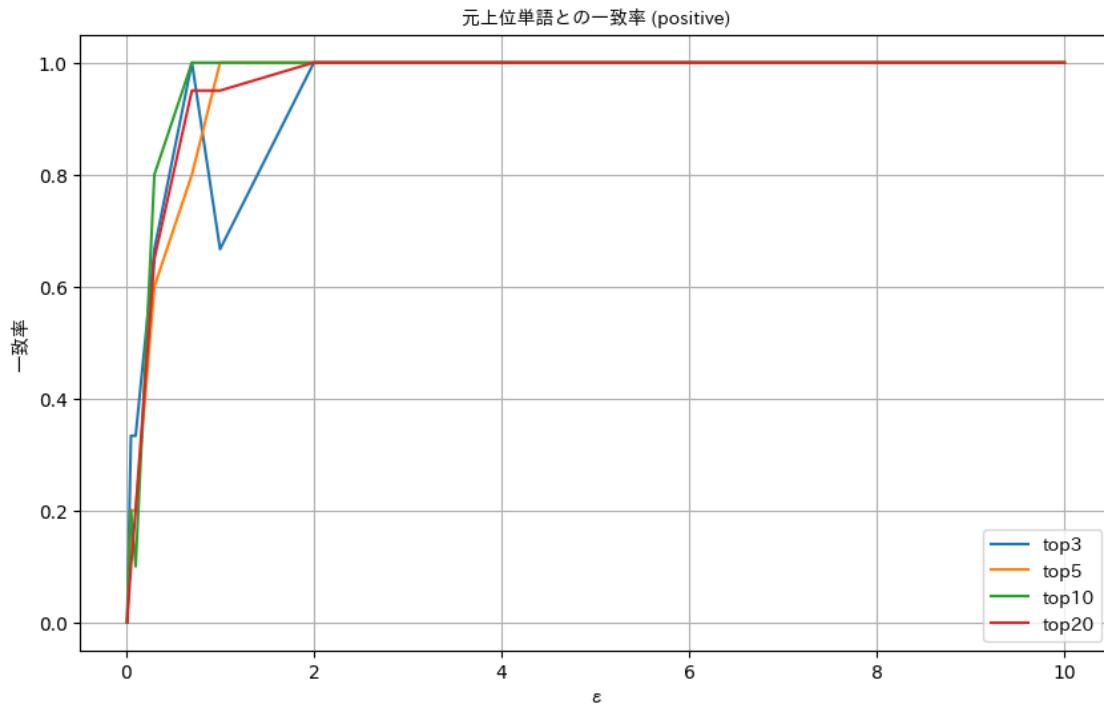

```python
import matplotlib.pyplot as plt
import matplotlib.font_manager as fm
import numpy as np

#
plt.rcParams['font.family'] = 'IPAGothic'

def calculate_match_rate(original_top_k, dp_top_k):
    match_count = len(set(original_top_k) & set(dp_top_k))
    return match_count / len(original_top_k) if original_top_k else 0

def plot_match_rate(results, epsilons, sentiment_label):
    top_k_values = [3, 5, 10, 20]
    match_rates = {k: [] for k in top_k_values}

    for eps in epsilons:
        for k in top_k_values:
            original_top_k = [word for word, count in
 ↪results[sentiment_label]["no DP"][:k]]
            dp_top_k = [word for word, count in results[sentiment_label][eps][:
 ↪k]]

            match_rate = calculate_match_rate(original_top_k, dp_top_k)
```

```python
            match_rates[k].append(match_rate)

    plt.figure(figsize=(10, 6))
    for k, rates in match_rates.items():
        plt.plot(epsilons, rates, label=f'top{k}')

    plt.xlabel(' ')
    plt.ylabel(' ')
    plt.title(f'        ({sentiment_label})')
    plt.legend()
    plt.grid(True)
    plt.show()


epsilons = [0.01, 0.05, 0.1, 0.3, 0.7, 1.0, 2.0, 3.0, 7.0, 10.0]

plot_match_rate(results, epsilons, 'negative')
plot_match_rate(results, epsilons, 'neutral')
plot_match_rate(results, epsilons, 'positive')
```
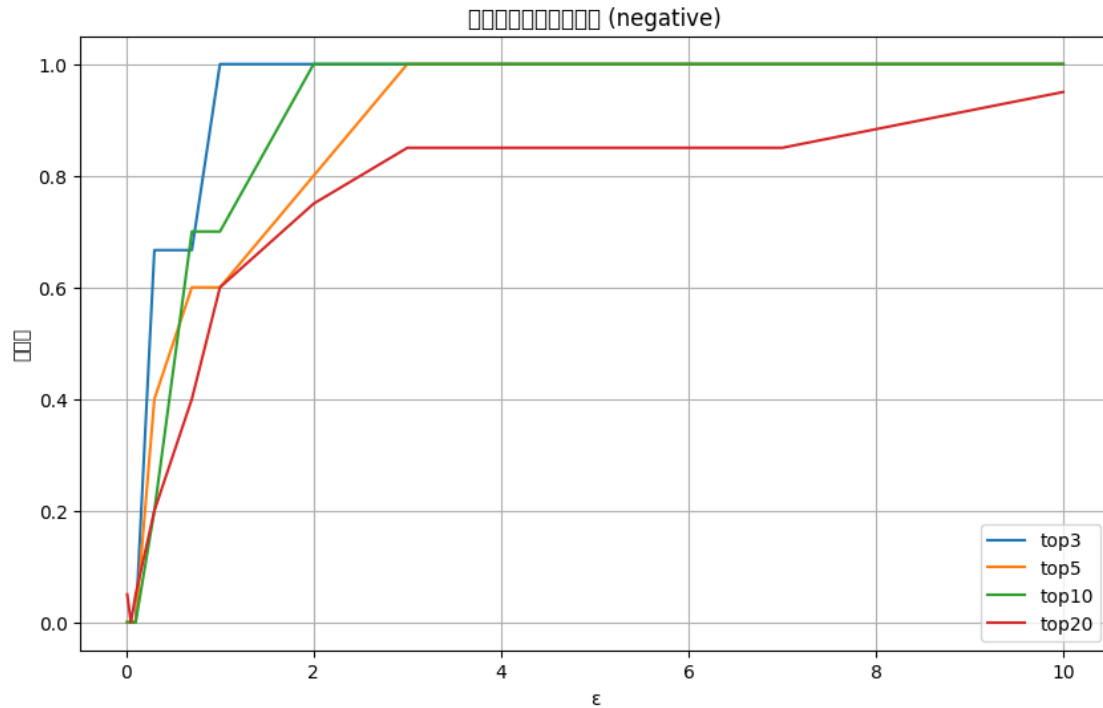
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/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 19968 (\N{CJK
UNIFIED IDEOGRAPH-4E00}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 33268 (\N{CJK
UNIFIED IDEOGRAPH-81F4}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 29575 (\N{CJK
UNIFIED IDEOGRAPH-7387}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
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/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 20803 (\N{CJK
UNIFIED IDEOGRAPH-5143}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 19978 (\N{CJK
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UNIFIED IDEOGRAPH-4E0A}) missing from current font.
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/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 20301 (\N{CJK
UNIFIED IDEOGRAPH-4F4D}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 21336 (\N{CJK
UNIFIED IDEOGRAPH-5358}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 35486 (\N{CJK
UNIFIED IDEOGRAPH-8A9E}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 12392 (\N{HIRAGANA
LETTER TO}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-
packages/IPython/core/pylabtools.py:170: UserWarning: Glyph 12398 (\N{HIRAGANA
LETTER NO}) missing from current font.
  fig.canvas.print_figure(bytes_io, **kw)
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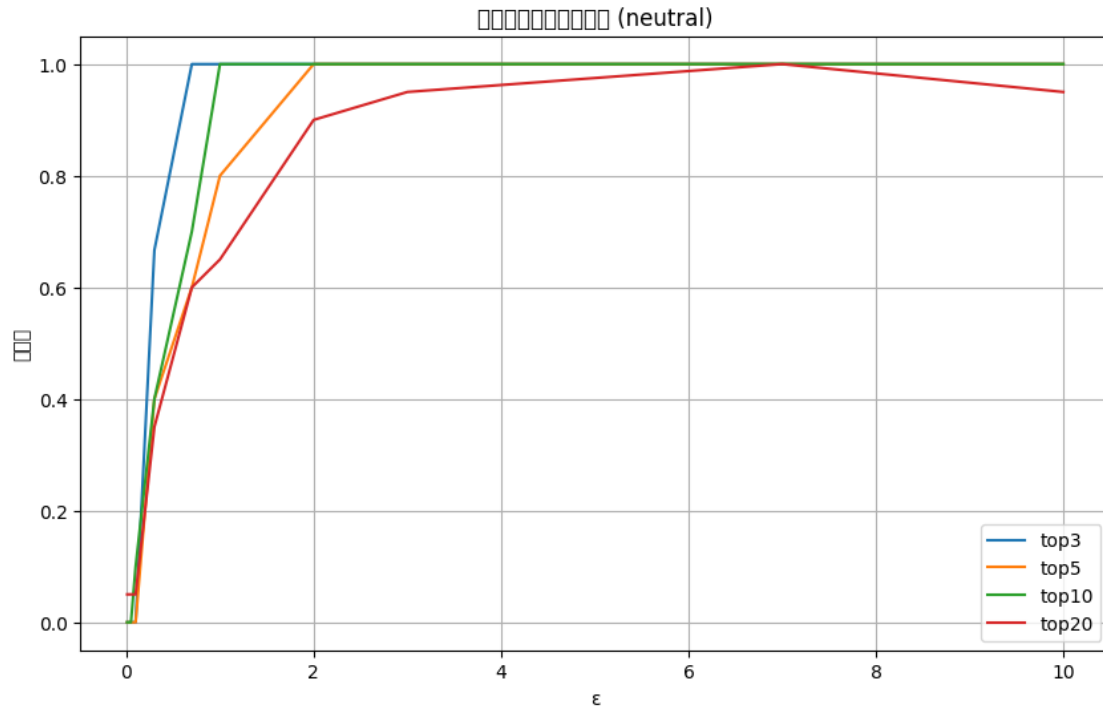
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```
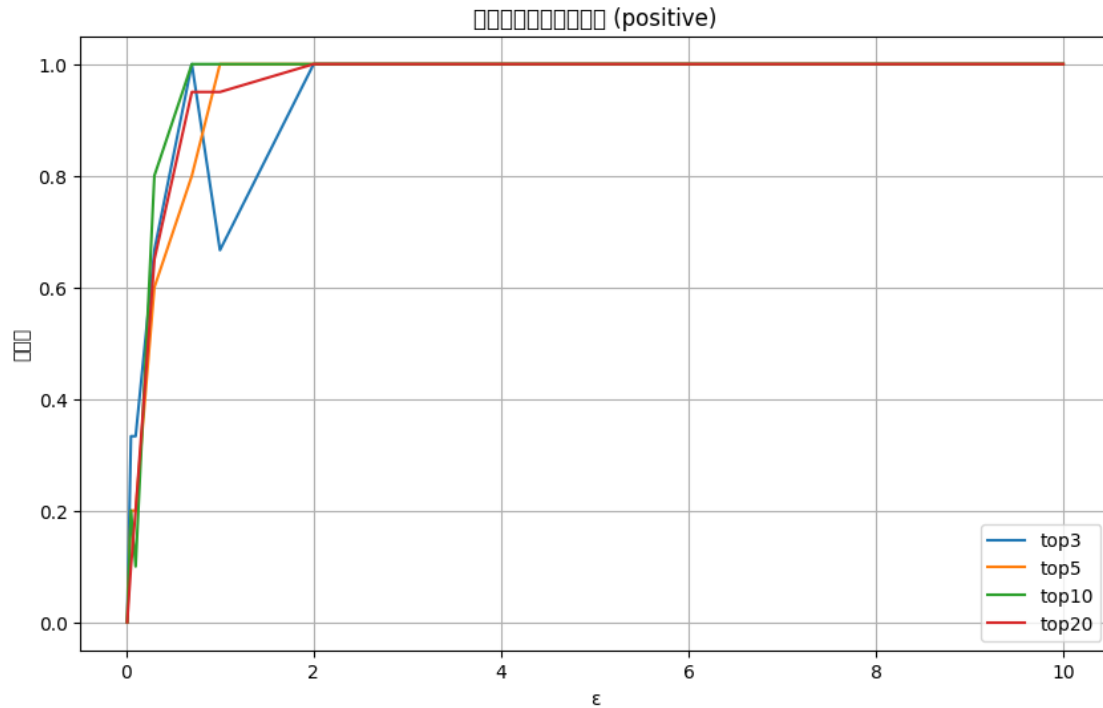
正解率の累積グラフ (negative)

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```

□□□□□□□□□□ (positive)

0.8 　　 : ML

```
[14]: !pip install diffprivlib
```

Requirement already satisfied: diffprivlib in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (0.6.4)
Requirement already satisfied: numpy>=1.21.6 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from diffprivlib)
(1.26.4)
Requirement already satisfied: scikit-learn>=0.24.2 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from diffprivlib)
(1.4.2)
Requirement already satisfied: scipy>=1.7.3 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from diffprivlib)
(1.13.0)
Requirement already satisfied: joblib>=0.16.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from diffprivlib)
(1.4.2)
Requirement already satisfied: setuptools>=49.0.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from diffprivlib)
(69.5.1)
Requirement already satisfied: threadpoolctl>=2.0.0 in
/home/jun/.pyenv/versions/3.11.8/lib/python3.11/site-packages (from scikit-
learn>=0.24.2->diffprivlib) (3.5.0)

```python
[15]:   import pandas as pd
        from sklearn.feature_extraction.text import CountVectorizer
        from sklearn.model_selection import train_test_split
        from sklearn.naive_bayes import GaussianNB as SklearnGaussianNB
        import numpy as np
        import spacy
        from typing import List, Tuple
        import itertools
        import matplotlib.pyplot as plt
        from diffprivlib.models import GaussianNB as DPGaussianNB

        #
        data_path = 'path/to/reviews_with_sentiment.csv'  #
        df = pd.read_csv(data_path)

        # spaCy
        nlp = spacy.load('ja_ginza')

        #
        POS = ['ADJ', 'ADV', 'INTJ', 'PROPN', 'NOUN', 'VERB']
        MAX_TERMS_IN_DOC = 5
        NGRAM = 1
        MAX_DF = 1.0
        MIN_DF = 0.01
        NUM_VOCAB = 10000

        def flatten(*lists) -> list:
            res = []
            for l in list(itertools.chain.from_iterable(lists)):
                for e in l:
                    res.append(e)
            return res

        def remove_duplicates(l: List[Tuple[str, float]]) -> List[Tuple[str, float]]:
            d = {}
            for e in l:
                d[e[0]] = e[1]
            return list(d.items())

        #     BoW
        tokens = []
        for doc in df["review"]:
            parsed_doc = nlp(doc)
            similarities = [(token.similarity(parsed_doc), token.lemma_) for token in↵
          ↪parsed_doc if token.pos_ in POS]
            similarities = remove_duplicates(similarities)
```

```python
    similarities = sorted(similarities, key=lambda sim: sim[1], reverse=True)[:
  ↪MAX_TERMS_IN_DOC]
    tokens.append([similarity[1] for similarity in similarities])

cv = CountVectorizer(ngram_range=(1, NGRAM), max_df=MAX_DF, min_df=MIN_DF,␣
  ↪max_features=NUM_VOCAB)
bow = cv.fit_transform([" ".join(ts) for ts in tokens]).toarray()


#
m = {
    "positive": 1,
    "neutral": 0,
    "negative": 0,
}
df["sentiment"] = df["sentiment"].map(m)
df["bow"] = bow.tolist()

X_train, X_test, y_train, y_test = train_test_split(df["bow"], df["sentiment"],␣
  ↪test_size=0.2)
X_train = [list(x) for x in X_train]
X_test = [list(x) for x in X_test]


#
clf = SklearnGaussianNB()
clf.fit(X_train, y_train)
print("Non-DP accuracy: ", clf.score(X_test, y_test))


#
epsilons = np.logspace(-2, 2, 50)
dim = np.array(X_train).shape[1]
lowers = np.zeros(dim)
uppers = np.ones(dim)
accuracies = {}

for epsilon in epsilons:
    accuracy = []
    for _ in range(20):
        dp_clf = DPGaussianNB(bounds=(lowers, uppers), epsilon=epsilon)
        dp_clf.fit(X_train, y_train)
        accuracy.append(dp_clf.score(X_test, y_test))
    accuracies[epsilon] = accuracy


#
x = epsilons
y = [np.mean(accuracies[eps]) for eps in epsilons]
e = [np.std(accuracies[eps]) for eps in epsilons]
```

```
plt.figure(figsize=(10, 6))
plt.semilogx(x, y)
plt.errorbar(x, y, yerr=e, marker='o', capthick=1, capsize=10, lw=1)
plt.xlabel(' ')
plt.ylabel('accuracy')
plt.ylim(0, 1)
plt.title('       accuracy ')
plt.grid(True)
plt.show()
```

```
----------------------------------------------------------------------------
FileNotFoundError                              Traceback (most recent call last)
Cell In[15], line 14
     12 #
     13 data_path = 'path/to/reviews_with_sentiment.csv'  #
---> 14 df = pd.read_csv(data_path)
     16 # spaCy
     17 nlp = spacy.load('ja_ginza')

File ~/.pyenv/versions/3.11.8/lib/python3.11/site-packages/pandas/io/parsers/
  ↪readers.py:1026, in read_csv(filepath_or_buffer, sep, delimiter, header,⊔
  ↪names, index_col, usecols, dtype, engine, converters, true_values,⊔
  ↪false_values, skipinitialspace, skiprows, skipfooter, nrows, na_values,⊔
  ↪keep_default_na, na_filter, verbose, skip_blank_lines, parse_dates,⊔
  ↪infer_datetime_format, keep_date_col, date_parser, date_format, dayfirst,⊔
  ↪cache_dates, iterator, chunksize, compression, thousands, decimal,⊔
  ↪lineterminator, quotechar, quoting, doublequote, escapechar, comment,⊔
  ↪encoding, encoding_errors, dialect, on_bad_lines, delim_whitespace,⊔
  ↪low_memory, memory_map, float_precision, storage_options, dtype_backend)
   1013 kwds_defaults = _refine_defaults_read(
   1014     dialect,
   1015     delimiter,
   (…)
   1022     dtype_backend=dtype_backend,
   1023 )
   1024 kwds.update(kwds_defaults)
-> 1026 return _read(filepath_or_buffer, kwds)

File ~/.pyenv/versions/3.11.8/lib/python3.11/site-packages/pandas/io/parsers/
  ↪readers.py:620, in _read(filepath_or_buffer, kwds)
    617 _validate_names(kwds.get("names", None))
    619 # Create the parser.
--> 620 parser = TextFileReader(filepath_or_buffer, **kwds)
    622 if chunksize or iterator:
    623     return parser

File ~/.pyenv/versions/3.11.8/lib/python3.11/site-packages/pandas/io/parsers/
  ↪readers.py:1620, in TextFileReader.__init__(self, f, engine, **kwds)
   1617     self.options["has_index_names"] = kwds["has_index_names"]
   1619 self.handles: IOHandles | None = None
```

```
-> 1620 self._engine = self._make_engine(f, self.engine)

File ~/.pyenv/versions/3.11.8/lib/python3.11/site-packages/pandas/io/parsers/
  ↪readers.py:1880, in TextFileReader._make_engine(self, f, engine)
   1878         if "b" not in mode:
   1879             mode += "b"
-> 1880 self.handles = get_handle(
   1881         f,
   1882         mode,
   1883         encoding=self.options.get("encoding", None),
   1884         compression=self.options.get("compression", None),
   1885         memory_map=self.options.get("memory_map", False),
   1886         is_text=is_text,
   1887         errors=self.options.get("encoding_errors", "strict"),
   1888         storage_options=self.options.get("storage_options", None),
   1889 )
   1890 assert self.handles is not None
   1891 f = self.handles.handle

File ~/.pyenv/versions/3.11.8/lib/python3.11/site-packages/pandas/io/common.py:
  ↪873, in get_handle(path_or_buf, mode, encoding, compression, memory_map,␣
  ↪is_text, errors, storage_options)
    868 elif isinstance(handle, str):
    869         # Check whether the filename is to be opened in binary mode.
    870         # Binary mode does not support 'encoding' and 'newline'.
    871         if ioargs.encoding and "b" not in ioargs.mode:
    872             # Encoding
--> 873             handle = open(
    874                 handle,
    875                 ioargs.mode,
    876                 encoding=ioargs.encoding,
    877                 errors=errors,
    878                 newline="",
    879             )
    880         else:
    881             # Binary mode
    882             handle = open(handle, ioargs.mode)

FileNotFoundError: [Errno 2] No such file or directory: 'path/to/
  ↪reviews_with_sentiment.csv'
```