

# COMP9727 Recommender Systems Assignment 1

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## EDA

In [218...

```
import pandas as pd

df = pd.read_csv('dataset.tsv', sep='\t')
```

In [184...

```
# Look at top 10 categories for each column (aside from lyrics)
for col in df.columns:
    if col == "lyrics":
        # Skip lyrics column
        continue

    print(f'Top 10 value percentages for column: {col}')

    counts = df[col].value_counts(normalize=True).head(10) * 100
    for val, pct in counts.items():
        print(f'{val}: {pct:.2f}%')
    print('-' * 40)
```

```
Top 10 value percentages for column: artist_name
thee oh sees: 1.00%
imagine dragons: 0.87%
tedeschi trucks band: 0.80%
dorothy: 0.80%
ty segall: 0.80%
joe bonamassa: 0.67%
khalid: 0.60%
thank you scientist: 0.60%
dirty heads: 0.60%
rival sons: 0.60%
```

```
-----
Top 10 value percentages for column: track_name
walls: 0.20%
sympathy: 0.20%
havana: 0.13%
blue skies: 0.13%
remedy: 0.13%
feeling good: 0.13%
superposition: 0.13%
learning: 0.13%
good years: 0.13%
love hurts (feat. travis scott): 0.13%
```

```
-----
Top 10 value percentages for column: release_date
2017: 27.27%
2018: 26.87%
2016: 25.40%
2019: 20.47%
```

```
-----
Top 10 value percentages for column: genre
blues: 23.07%
rock: 20.67%
jazz: 15.60%
pop: 14.20%
reggae: 11.80%
country: 11.73%
hip hop: 2.93%
```

```
-----
Top 10 value percentages for column: topic
dark: 32.67%
sadness: 25.07%
personal: 23.13%
lifestyle: 13.67%
emotion: 5.47%
```

In [185...

```
# Check NAs
na_counts = df.isnull().sum()
print(na_counts)
```

```
artist_name      0
track_name       0
release_date     0
genre            0
lyrics           0
topic            0
dtype: int64
```

```
In [186... # Check duplicates (20 duplicates) - Remove Later  
df.duplicated().sum()
```

```
Out[186... 20
```

```
In [187... # Eyeball through unique words in lyrics to get a sense of what text processing  
from collections import Counter  
  
all_words = ' '.join(df['lyrics']).split()  
  
word_counts = Counter(all_words)  
  
# Print out alphabetically lyrical words along with its count  
for word, count in sorted(word_counts.items()):  
    print(f"{word}: {count}")
```

aaaah: 10  
aaah: 10  
aaahaha: 2  
aand: 1  
ababa: 2  
aback: 1  
abandon: 5  
abdicate: 2  
aberration: 1  
abide: 4  
ability: 1  
ablaze: 5  
able: 9  
abolition: 1  
abomination: 2  
abound: 1  
abroad: 1  
absense: 2  
absent: 1  
absolute: 8  
absolutely: 41  
absolution: 2  
absoul: 1  
abstain: 1  
absurd: 1  
abundantly: 1  
abuse: 10  
abysm: 1  
accelerate: 1  
accent: 2  
accept: 6  
access: 1  
accidents: 1  
acclimate: 1  
accompany: 1  
accomplishments: 1  
accord: 1  
accordion: 1  
accumulation: 3  
accurate: 2  
accusations: 1  
accuse: 3  
accustom: 1  
acdc: 1  
ace: 4  
ache: 20  
achieve: 1  
acid: 3  
acidfaced: 2  
acknowledge: 1  
acoustic: 3  
acquire: 2  
acrid: 1  
acryin: 1  
act: 14  
actin: 5  
action: 14  
activate: 1  
active: 1  
activity: 1

actress: 1  
actually: 2  
adage: 1  
adamant: 3  
adamantine: 1  
adapt: 1  
add: 10  
addict: 15  
addiction: 9  
addictions: 1  
addictive: 2  
additional: 1  
address: 2  
adjust: 2  
adler: 2  
admirer: 1  
admit: 13  
adrenaline: 2  
adrift: 1  
advance: 1  
advantage: 4  
adventure: 1  
adverse: 2  
advertise: 1  
advice: 24  
afalling: 1  
afar: 10  
affair: 1  
affect: 1  
affection: 4  
affi: 2  
affliction: 2  
afford: 11  
aflame: 1  
afraid: 87  
africa: 4  
african: 4  
afro: 1  
afterglow: 4  
afterlife: 7  
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againthe: 1  
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agenda: 1  
aggressive: 1  
agin: 1  
agitate: 1  
agnus: 1  
agony: 7  
agree: 13  
aground: 3  
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ahaaha: 1  
ahab: 1  
ahah: 6  
ahahaan: 1  
ahdame: 1

ahead: 61  
ahha: 5  
ahhahhahhahh: 4  
ahhh: 1  
ahmadiyyan: 1  
ahoh: 4  
ahugh: 1  
aid: 1  
aim: 1  
aimlessly: 7  
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airbourne: 6  
airframe: 1  
airplane: 1  
airwaves: 1  
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alamo: 1  
alarm: 28  
alas: 2  
albatross: 3  
albin: 1  
alborosie: 2  
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albuquerque: 1  
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alesso: 1  
alexandria: 1  
alibi: 5  
alien: 7  
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aloud: 1

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archetypes: 1  
architect: 3  
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argentina: 2  
argue: 8



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army: 6  
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biggest: 8  
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bingham: 6  
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blister: 2  
bloat: 1  
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bolt: 2  
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bomb: 13  
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bomboclaat: 1  
bombshell: 1  
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bone: 141  
bonecrunching: 1  
boneshaker: 2  
bong: 2  
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bontemps: 1  
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boogie: 3  
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booty: 3  
booze: 8  
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borneo: 4  
borrow: 7  
bosom: 5  
boss: 4  
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bottomless: 2  
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bouncin: 2  
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bountiful: 2  
bounty: 1



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bowl: 2  
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boxcar: 10  
boxer: 1  
boyfriend: 5  
boys: 35  
boyz: 1  
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braggin: 1  
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brain: 87  
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bringin: 2  
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brise: 1  
british: 1  
brittle: 2  
broadcast: 2  
broadway: 2  
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brokenness: 5  
brood: 1  
brooklyn: 1  
brother: 48  
brotherless: 1  
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brothersforgive: 1  
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brownin: 1  
brownstown: 1  
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bruck: 1  
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budi: 1  
buff: 1  
buffalo: 2  
bug: 2  
build: 127  
buju: 4  
bulge: 1  
bull: 7  
bulldoze: 1

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bullets: 22  
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bumpin: 1  
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burkejimmy: 1  
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burnin: 9  
burst: 8  
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cadence: 1  
cadillac: 3  
cafe: 1  
cage: 17  
cahpassion: 2  
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cajun: 1  
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cakin: 2  
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cali: 1

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calum: 1  
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camden: 7  
cameos: 1  
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cannibal: 4  
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cannonball: 2  
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cantus: 1  
canvas: 1  
canyons: 1  
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caper: 1  
capital: 1  
capitalist: 1  
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captivate: 3  
captive: 5  
captivity: 1  
capture: 5  
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caramel: 1  
caravan: 1  
carbonate: 1  
carburetor: 1  
carcass: 2  
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cardboard: 7  
cardi: 2  
care: 148  
career: 1  
careful: 23  
carefully: 1  
careless: 9  
carelessly: 1

carelessness: 1  
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caribou: 1  
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carnation: 1  
carnivore: 1  
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usanditole: 4  
usandiyese: 4  
use: 1

useless: 12  
uselessness: 4  
users: 1  
usher: 7  
usin: 1  
usine: 1  
usual: 3  
usually: 5  
utah: 6  
utensil: 1  
utmost: 2  
utopian: 1  
utter: 3  
uuuuuh: 1  
vacancy: 9  
vacant: 8  
vacation: 5  
vacay: 3  
vaccine: 1  
vader: 1  
vagabond: 1  
vague: 5  
vagues: 1  
vain: 18  
vala: 1  
valentino: 1  
valhall: 6  
valhalla: 2  
valiant: 1  
validation: 1  
valley: 10  
valleys: 2  
valuable: 1  
valve: 2  
vamos: 6  
vampire: 1  
vandalize: 1  
vanilla: 1  
vanish: 8  
vanity: 1  
vanquish: 1  
vapor: 1  
vapors: 1  
variables: 1  
vary: 1  
vast: 2  
vatican: 2  
vatos: 1  
vault: 6  
vegas: 1  
vehcs: 1  
vehicle: 2  
veil: 3  
vein: 34  
venerable: 2  
venice: 1  
venom: 10  
venomous: 6  
vent: 1  
vente: 1



ventilate: 1  
ventricle: 1  
verbal: 1  
verdict: 1  
vermin: 2  
verona: 1  
verse: 3  
version: 6  
versus: 9  
vert: 6  
vertical: 2  
vertigo: 5  
vessel: 8  
vest: 1  
vex: 1  
viagra: 3  
vibe: 45  
vibes: 8  
vibez: 1  
vibrate: 4  
vibration: 12  
vibrational: 2  
vibrations: 1  
vice: 7  
vices: 1  
vicious: 4  
victim: 16  
victimless: 1  
victims: 3  
victorious: 1  
victory: 5  
victrola: 1  
video: 28  
videos: 2  
view: 30  
vigils: 3  
vigrd: 1  
viii: 1  
vile: 3  
vilest: 1  
vill: 1  
village: 1  
villains: 3  
ville: 1  
vine: 2  
vinegar: 4  
vines: 1  
vinyl: 1  
violence: 27  
violent: 18  
violently: 1  
violin: 4  
vipers: 2  
viral: 1  
virgin: 4  
virtue: 1  
virtuous: 1  
vision: 21  
visions: 29  
visit: 6

visual: 1  
visualize: 1  
vital: 2  
vivid: 2  
vocal: 1  
vodka: 1  
vogue: 1  
voice: 138  
voiceless: 3  
void: 10  
volume: 1  
voodoo: 5  
vote: 2  
vow: 2  
vowel: 2  
voyage: 2  
vuitton: 1  
vulnerable: 7  
vult: 3  
vulture: 1  
vultures: 4  
vulturous: 1  
vérité: 1  
waaaaaaa: 7  
waan: 11  
waders: 2  
wafia: 1  
wag: 2  
waga: 1  
wage: 3  
wager: 1  
waifs: 4  
wail: 2  
waipio: 1  
waistline: 3  
wait: 280  
waitin: 19  
waitress: 2  
waka: 1  
wake: 64  
wakin: 4  
wako: 2  
walachian: 1  
wales: 1  
walk: 415  
walkin: 8  
wall: 213  
wallet: 1  
walmart: 1  
walston: 2  
waltz: 1  
wan: 1  
wander: 20  
wanga: 2  
wann: 1  
wanna: 705  
want: 796  
wanti: 1  
waow: 1  
war: 6

warfare: 2  
warhead: 1  
warm: 36  
warmer: 3  
warmest: 1  
warmth: 5  
warn: 20  
warnin: 1  
warpath: 1  
warrin: 1  
warrior: 6  
warriors: 1  
wash: 23  
wasmara: 2  
wasn: 44  
wass: 4  
waste: 116  
wasteful: 5  
wasteland: 3  
wasteman: 8  
wasters: 1  
watch: 175  
watchin: 16  
water: 108  
waterand: 1  
waterbed: 1  
waterfalls: 3  
waterhouse: 1  
wave: 74  
wayfair: 1  
ways: 101  
wayward: 1  
wazuza: 1  
weak: 42  
weaken: 2  
weakest: 3  
weakness: 23  
weaknesses: 1  
wealth: 4  
weapon: 8  
weaponry: 1  
weapons: 8  
wear: 49  
wearin: 1  
weary: 10  
weather: 22  
weave: 5  
weaver: 1  
wed: 7  
wedah: 1  
wednesday: 2  
weed: 7  
weeeell: 1  
weeell: 1  
week: 32  
weekend: 31  
weekly: 1  
weeknd: 23  
weeks: 9  
weenie: 1

weep: 16  
weepin: 1  
weezer: 2  
weigh: 12  
weight: 28  
weightless: 2  
weird: 6  
welcome: 62  
welkins: 1  
wellearned: 1  
wellrested: 5  
welt: 1  
welter: 1  
weren: 9  
werewolf: 1  
wesson: 1  
westside: 1  
westward: 2  
westway: 6  
wether: 1  
whackamole: 1  
whale: 1  
wham: 1  
whassup: 1  
whatcha: 22  
whats: 1  
wheel: 25  
whereisalex: 1  
whew: 2  
whewheel: 4  
whichever: 1  
whiff: 1  
whiles: 1  
whilst: 1  
whims: 1  
whine: 5  
whinin: 1  
whip: 15  
whippin: 3  
whirlwind: 1  
whiskey: 33  
whisky: 1  
whisper: 33  
whisperin: 1  
whistle: 13  
whistler: 2  
white: 99  
whiteknuckle: 1  
whiten: 1  
whiter: 3  
whitesnake: 2  
whiz: 1  
whoa: 123  
whoaa: 1  
whoaaa: 1  
whoah: 7  
whoaoh: 3  
whoaohoh: 15  
whoaohohoh: 12  
whoaohohohohoh: 4

whoaowhoa: 1  
whoawhoa: 4  
whoawhoawhoa: 1  
whofa: 1  
whoie: 1  
whola: 1  
wholes: 1  
whoo: 2  
whoaa: 1  
whoaaa: 2  
whoaaaaahh: 1  
whoaaaaahh: 1  
whooh: 3  
whoohh: 3  
whoohhahhh: 1  
whoohah: 1  
whoohh: 4  
whoohh: 10  
whoohhahhh: 2  
whoohhah: 1  
wick: 1  
wicked: 62  
wickedness: 2  
wickness: 1  
wicks: 2  
wide: 86  
wider: 3  
widow: 1  
wiedersehen: 3  
wield: 1  
wife: 24  
wifey: 1  
wifi: 2  
wild: 26  
wilderness: 1  
wildest: 1  
wildeyed: 1  
wildfire: 3  
wildflower: 1  
wildflowers: 3  
wilds: 4  
will: 15  
willin: 1  
willingness: 2  
wilt: 2  
wily: 1  
win: 20  
wind: 92  
window: 33  
windowless: 1  
windows: 18  
windpipe: 1  
windshield: 1  
windswept: 1  
wine: 31  
wing: 56  
wink: 3  
winner: 2  
winners: 4  
winnings: 1

wino: 3  
winter: 31  
wipe: 10  
wire: 36  
wirlwinds: 2  
wisdom: 11  
wise: 14  
wiser: 1  
wisest: 2  
wish: 276  
wishbone: 1  
wishful: 4  
wishin: 12  
witch: 8  
witcha: 3  
withdraw: 3  
wither: 11  
withstain: 1  
withstand: 1  
witness: 19  
wits: 2  
woaaahh: 1  
woaaoh: 1  
woah: 136  
woahoh: 8  
woahohoh: 5  
woahohohoh: 1  
woahooh: 2  
woahwoah: 2  
wobble: 1  
woeohwoah: 1  
woes: 2  
woii: 1  
wolves: 8  
woman: 94  
womankind: 1  
womanogomy: 1  
women: 4  
wonder: 138  
wonderful: 31  
wonderfully: 1  
wonderin: 1  
wonderland: 1  
wondrous: 2  
wooden: 1  
woodlief: 1  
woods: 6  
woodwork: 1  
wooh: 6  
woohoo: 8  
wooooh: 2  
wooooohooh: 4  
wooooooah: 6  
woooooooooah: 1  
wooyaay: 1  
word: 174  
wordless: 1  
work: 128  
worker: 1  
workflow: 2

workin: 3  
world: 737  
worlds: 5  
worldwide: 2  
worm: 2  
worry: 53  
worryin: 2  
worse: 25  
worship: 16  
worst: 46  
worthless: 1  
worthlessness: 1  
worthwhile: 3  
woss: 4  
wouldn: 65  
wound: 27  
wowoah: 4  
wrap: 32  
wrath: 7  
wrathful: 1  
wreck: 22  
wreckage: 1  
wrench: 1  
wrestle: 4  
wretched: 5  
wrinkle: 1  
wrist: 2  
wrists: 5  
write: 137  
writhe: 3  
writin: 1  
wroldsen: 1  
wrong: 230  
wukliss: 1  
wwwalking: 2  
wyld: 1  
wyoming: 7  
xanadu: 1  
xanax: 1  
xanny: 1  
xiii: 1  
xmachine: 2  
xray: 2  
xuitcasecity: 2  
xxxtentacion: 1  
yaaaaa: 1  
yaah: 1  
yachty: 2  
yaknahmean: 1  
yang: 4  
yaow: 1  
yarborough: 1  
yawn: 2  
yeaaaaaaah: 1  
yeaaah: 1  
yeah: 1283  
yeahah: 5  
yeahahahah: 2  
yeaheh: 4  
yeaheheh: 16

yeahey: 1  
yeahh: 2  
yeahheh: 1  
yeahhey: 1  
yeahyeah: 33  
year: 54  
yearn: 2  
years: 177  
yeayeayeayah: 3  
yeeah: 3  
yeeeeeaaaaaah: 1  
yeeh: 4  
yeheheh: 1  
yeld: 1  
yell: 11  
yelle: 1  
yellow: 22  
yelp: 1  
yeongwonhagil: 1  
yeongwonhi: 1  
yeongyeong: 4  
yesterday: 82  
yesterdays: 1  
yesteryear: 2  
yeti: 1  
ynnox: 1  
yonder: 3  
yoohooh: 2  
york: 3  
young: 145  
younger: 23  
youngin: 1  
youooh: 2  
youou: 4  
yououou: 2  
youre: 1  
youself: 1  
yout: 3  
youth: 44  
youthes: 1  
youthful: 3  
youths: 2  
youtube: 1  
yoyo: 1  
yuna: 1  
yung: 3  
yute: 4  
zagadat: 14  
zapita: 1  
zatopa: 1  
zeal: 1  
zenith: 1  
zeppelin: 1  
zero: 2  
zillion: 1  
zilly: 1  
zindagi: 11  
zion: 4  
zip: 2  
zombie: 6



zombies: 1  
 zona: 1  
 zone: 10  
 zoom: 5  
 âcause: 2  
 älska: 1  
 église: 1  
 étais: 1  
 étoiles: 1  
 órale: 1  
 그때처럼: 1  
 기어서라도: 1  
 기억해주길: 1  
 돌아보길: 1  
 마지막은: 1  
 멈췄으면: 1  
 무너지지마: 1  
 믿는다면: 3  
 믿었기에: 1  
 바라보는: 1  
 바라봐주길: 1  
 방탄소년단의: 1  
 방탄이란: 1  
 뱀새들아: 4  
 언젠가는: 1  
 없었던다: 1  
 영원하길: 1  
 유리천장: 1  
 잃어버리지마: 4  
 잊어버리지마: 7  
 친구들아: 2  
 트램펄린: 1  
 한번쯤은: 1  
 함께라는: 1  
 finished: 1

```

In [6]: # Seems like Lyrics have been quite pre-processed (i.e. Lower-cased, no special
# It does however could use some Lemmatization/stemming (e.g. singers vs singer)
# It also contains some foreign language (most notably korean characters)

# -----
# Non english words present in the data
# -----
# âcause: 2
# älska: 1
# église: 1
# étais: 1
# étoiles: 1
# órale: 1
# 그때처럼: 1
# 기어서라도: 1
# 기억해주길: 1
# 돌아보길: 1
# 마지막은: 1
# 멈췄으면: 1
# 무너지지마: 1
# 믿는다면: 3
# 믿었기에: 1
# 바라보는: 1
# 바라봐주길: 1
  
```

```
# 방탄소년단의: 1
# 방탄이란: 1
# 뱀새들아: 4
# 언젠가는: 1
# 없었던다: 1
# 영원하길: 1
# 유리천장: 1
# 잃어버리지마: 4
# 잊어버리지마: 7
# 친구들아: 2
# 트램펄린: 1
# 한번쯤은: 1
# 함께라는: 1

# Ideally, we would use a different tokenizer for korean lyrics (e.g. character-
# I will use an additional column `has_korean` to capture this instead
```

```
In [188... import re

def contains_korean(text):
    # Check for korean unicode characters
    # Hangeul Syllables: [\uAC00-\uD7A3] (most common)
    return bool(re.search(r'[\uAC00-\uD7A3]', text))

In [189... df['has_korean'] = df['lyrics'].apply(contains_korean)
df[df['has_korean']]
```

```
Out[189...      artist_name  track_name  release_date  genre      lyrics      topic  has_korean
```

	artist_name	track_name	release_date	genre	lyrics	topic	has_korean
24	t-rock	be a g about it	2016	hip hop	잊어버리 지마 잃어 버리지마 잊어버리 지마 잃어 버리지마 멈췄으면 잊어버리 지마 잃어 버리지마...	personal	True
1005	bts	not today	2017	pop	방탄소년 단의 today underdogs world come lose today t...	personal	True
1108	dua lipa	kiss and make up	2018	pop	talk morning bang head bang head wall scar fal...	emotion	True

```
In [9]: # Perform same check for track name
from collections import Counter

all_words = ' '.join(df['track_name']).split()
```

```
word_counts = Counter(all_words)

for word, count in sorted(word_counts.items()):
    print(f"{word}: {count}")
```

"alice: 1  
#3: 1  
&: 25  
'n': 1  
'sunday: 1  
(365: 1  
(45: 1  
(as: 1  
(beware): 1  
(blood): 1  
(dirty: 1  
(en: 1  
(end: 1  
(feat.: 45  
(featuring: 1  
(fight: 1  
(fingers): 1  
(for: 1  
(forget: 1  
(from: 1  
(full): 1  
(if: 1  
(in: 1  
(intro): 1  
(is: 1  
(jenaux: 1  
(joshy: 1  
(kiss: 1  
(live: 2  
(live): 3  
(on: 1  
(radio: 1  
(remains): 1  
(single: 1  
(solid: 1  
(take: 1  
(the: 1  
(to: 2  
(twentyfourseven): 1  
(until: 1  
(with: 12  
(you: 1  
(your: 1  
...a: 1  
/: 5  
1: 2  
10,000: 1  
100%: 1  
14: 1  
1985: 1  
1993: 1  
1st: 1  
2: 4  
21: 1  
250: 1  
28: 1  
2nd: 1  
3-5-7: 1  
30: 1  
3:16: 1

46: 1  
4:20/reincarnated: 1  
4ever: 1  
6: 1  
6:00: 1  
6am: 1  
6lack): 1  
7: 2  
7-t's: 1  
86: 1  
9: 1  
[REDACTED]: 1  
[feat.: 1  
a: 51  
a.m.: 1  
about: 6  
about): 2  
above: 2  
absolute: 1  
absolutely: 1  
ada: 1  
addiction: 1  
affection: 1  
afro: 1  
after: 1  
again: 6  
against: 3  
age: 1  
ah: 1  
ahead: 2  
ain't: 6  
ain't: 1  
air: 1  
alarm: 1  
alchemist: 1  
alessia: 1  
aligner: 1  
alive: 3  
all: 22  
almost: 1  
alone: 1  
alright: 1  
alrighty: 1  
alta: 1  
always: 4  
am: 4  
amateur: 1  
amen: 1  
america: 3  
american: 3  
amsterdam: 1  
an: 3  
anchor: 1  
and: 25  
angel: 2  
animal: 1  
another: 1  
anthem: 1  
anyhow: 1  
anything: 1

anyway: 2  
apart: 1  
aphrodite: 1  
apologize: 1  
applause...: 1  
archer: 1  
are: 6  
arising: 1  
arms: 4  
around: 7  
arrow: 1  
arsonist's: 1  
art: 1  
artist: 1  
as: 4  
ask: 1  
at: 9  
atmosphere: 1  
atticus: 1  
automatic: 1  
automaton: 1  
autumn: 1  
awake: 1  
awakens: 1  
away: 18  
awhile: 1  
axilla: 1  
azalea: 1  
baby: 5  
baby): 2  
bachelor: 1  
back: 8  
backbone: 1  
backdoor: 1  
backroad: 1  
bad: 5  
bae: 1  
bag: 2  
bakersfield: 1  
balcony: 1  
ballad: 2  
balvin,: 1  
bamalama: 1  
banana: 1  
bang: 3  
bantou,: 1  
bar: 1  
bardis: 1  
bare: 1  
baroness: 1  
basenji: 1  
basketball: 1  
bass: 1  
battles): 1  
bay: 1  
be: 15  
beat: 2  
beautiful: 2  
becoming: 1  
been: 2

beer: 1  
before: 1  
beginning: 1  
behavior: 1  
behind: 1  
beige: 1  
believe: 3  
believing: 1  
bell: 1  
bella: 1  
belong: 1  
below: 1  
besame: 1  
best: 2  
better: 5  
betty: 1  
between: 1  
bewitched: 1  
big: 5  
billy's: 1  
bird: 2  
birds: 2  
black: 16  
blackbear): 1  
blacked: 1  
blackout: 1  
blade: 1  
blame: 3  
bleed: 1  
blessing: 1  
blessings: 1  
blinded: 1  
blood: 5  
blooded: 1  
bloodpop®): 1  
blossom: 1  
blowin': 1  
blue: 6  
blues: 3  
bluesin: 1  
boa: 1  
body: 1  
boggie: 1  
bomp: 3  
bomp): 1  
bone: 1  
bones: 10  
boog): 1  
boogie: 1  
boogy: 1  
books: 1  
booze: 1  
bored: 3  
born: 3  
bother: 1  
bottom: 1  
boulevard: 1  
bounce: 1  
bout: 1  
boxcar: 1

boy: 2  
boys: 1  
boys): 1  
brace: 1  
brain: 2  
brains: 1  
brave: 1  
break: 12  
breakers: 1  
breakfast: 1  
breaking: 2  
breaks: 2  
breath: 2  
breathe: 3  
brent: 1  
brew: 1  
bridge: 1  
bright: 1  
bring: 1  
broke: 1  
broken: 9  
brother: 1  
brown: 2  
bubble: 1  
bubbles: 1  
buddy): 1  
build: 1  
building: 1  
buju: 1  
bullet: 3  
bullets: 2  
bum: 3  
burn: 1  
burning: 1  
bury: 2  
bust: 1  
but: 1  
butterfly: 2  
buy: 1  
by: 2  
bá: 1  
c: 2  
c'mon: 1  
cadaver: 1  
cadillac: 1  
cale): 2  
california: 3  
call: 4  
cameos: 1  
camera: 1  
can: 3  
can't: 7  
can): 1  
cancer: 1  
can't: 2  
capri: 1  
car: 1  
cara): 1  
cardboard: 1  
careless: 1



cares: 1  
carry: 1  
cascade: 1  
case: 1  
casino: 1  
castaway: 1  
castle: 1  
catch: 1  
chaidez: 1  
champ: 1  
champion: 2  
change: 8  
changes: 2  
changing: 2  
chaos: 2  
chapter: 1  
chapters: 1  
charged: 1  
charmer: 1  
chasing: 1  
chew: 1  
chick: 1  
child: 1  
chloe: 1  
chlorine: 1  
chocolatize: 1  
choke: 1  
christmas: 1  
church: 1  
ciao: 1  
circle: 1  
city: 4  
cj7: 1  
clockworks: 1  
close: 2  
closer: 1  
closing: 1  
clothes: 1  
cloud: 2  
clown: 1  
club: 2  
coattails: 1  
cobain: 1  
cobb): 1  
coconut: 1  
cocoon: 1  
cody: 2  
coffee: 2  
cold: 6  
cole,: 1  
collide: 1  
colors: 2  
colouring: 1  
comanche: 1  
come: 5  
coming: 1  
command: 1  
compares: 2  
complainer: 1  
concrete: 1

condemned: 1  
condition: 2  
connection: 1  
connects: 1  
conrad: 1  
consequences: 1  
contagion: 1  
controversial: 1  
cool: 2  
corey: 1  
corner: 1  
coroner: 1  
cougar,: 1  
could: 2  
count: 1  
counting: 1  
country: 1  
courtney: 1  
cover: 2  
cowboy: 1  
cowgirl: 1  
cozz: 1  
crackhouse: 1  
cranes: 1  
crazy: 1  
creature: 1  
creatures: 1  
cried: 1  
cries: 1  
crime: 1  
cross: 2  
crossfire: 1  
crown: 1  
crownless: 1  
crusin: 1  
cry: 4  
crying: 3  
crystal: 1  
cube: 1  
currency: 1  
currents: 1  
cushty: 1  
cycles: 1  
cynic: 1  
cyrus): 1  
da: 1  
daft: 1  
daily: 1  
daniels: 1  
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wait: 3

waiting: 2  
waits: 1  
wake: 1  
waking: 1  
walk: 5  
walked: 1  
walking: 2  
wall: 1  
walls: 4  
wanna: 3  
want: 2  
wants: 1  
war: 3  
warm: 1  
warning: 1  
warrior: 2  
was: 6  
wash: 1  
wasteman: 1  
wasting: 1  
watching: 1  
water: 3  
waters: 1  
wave: 1  
waves: 1  
way: 12  
ways: 1  
we: 15  
we're: 1  
weak: 1  
weather: 1  
week): 1  
weekend: 2  
weeknd): 1  
welkins: 1  
well: 2  
well-rested: 1  
were: 5  
westway: 1  
what: 12  
what's: 2  
whatcha: 1  
whatever: 3  
when: 4  
where: 1  
whereyougonnago?: 1  
while: 3  
whiskey: 1  
whisper: 1  
white: 7  
who: 2  
whole: 3  
why: 4  
wicked: 4  
wide: 2  
wild: 1  
wildfire: 1  
wildflowers: 1  
will: 7  
wind: 1

winding: 1  
window: 1  
wings: 1  
wins: 1  
winter: 1  
wire: 2  
wish: 5  
wish): 1  
wit: 1  
with: 7  
within: 2  
without: 7  
wolf: 1  
woman: 1  
woman,: 1  
won't: 5  
wonderful: 1  
wonn: 1  
won't: 1  
words: 1  
world: 17  
worship: 1  
worst: 2  
worthy: 1  
would: 3  
wouldn't: 1  
wounds: 1  
wreck: 1  
wrong: 1  
wurlitzer: 1  
wyoming: 1  
xi: 1  
xxxtentacion): 1  
ya: 3  
yam: 2  
year: 1  
yearn: 1  
years: 5  
yesterday: 2  
yet: 1  
yo: 1  
you: 81  
you'll: 1  
you're: 2  
you've: 3  
you): 1  
you,: 2  
young: 2  
young): 1  
young,: 1  
younger: 1  
your: 20  
yours: 2  
yourself: 1  
youth: 1  
you're: 1  
z): 1  
zesty: 1  
zion: 2  
zombie: 1



```
ácido: 1  
валуев: 1  
-: 1
```

```
In [10]: # Track name looks a lot dirtier - it's lowercased but contains a lot of symbols  
# Will have to remove this
```

## Summary of EDA:

- Contains 20 rows of duplicates -> Remove duplicate
- Contains 3 songs with Korean lyrics -> capture this using `has_korean` flag
- Lyrics seemed to be quite pre-processed. Track\_name could use some preprocessing (contains a lot of symbols)
- Topic is imbalanced (dark: 32.67%, sadness: 25.07%, personal: 23.13%, lifestyle: 13.67%, emotion: 5.47%)

# PART ONE

## Q1.1 and Q1.2

---

### Summary of Preprocessing Steps

1. Remove duplicates
2. Detect whether `lyrics` contains Korean characters
3. Change whitespace/symbols to `_` in `artist_name` (this is to prevent vectorizer from splitting it into multiple tokens)
4. Create a base `document` column by concatenating `lyrics` and `track_name`
5. Preprocess the base `document` column:
  - Lowercase text
  - Remove punctuation
  - Tokenize on spaces
  - Remove stop words (sourced from NLTK)
  - Stem words (tested using lemmatisation instead but performed worse)
6. Append additional metadata to the `document` column:

```
artist_name → artist_name_<value>  
genre → genre_<value>  
release_date → release_date_<value>
```

7. If the song contains Korean characters, the `"has_korean"` token is also added to the `document` column.
- 

### Regex might remove too many special character consideration

This is not so much of a concern in my preprocessing pipeline. As I'm only applying the text cleaning pipeline to `lyrics` and `track_name`, the original regex from tutorial

(remove anything that's not a character or whitespace) works fine as is. The `lyrics` column already contains clean text with a few exceptions (e.g. accented characters or Korean lyrics). Only 3 out of the 1500 songs have Korean lyrics, which I've captured separately through the field `has_korean`.

Other columns (such as `genre`, `artist name`, and `release date`) are encoded differently (e.g. `genre_rock`) as this ensures that the model can distinguish between a word like `"rock"` that appears in the lyrics and `"rock"` as a genre.

The original regex wouldn't have been appropriate if it was applied to the `artist_name` as `artist_name` would have been split into multiple tokens by the vectorizer. It should be preserved and treated as one token.

## Text preprocessing

```
In [190... import re
import nltk
from nltk.corpus import stopwords
from nltk.stem import WordNetLemmatizer
from nltk.tokenize import word_tokenize
from nltk.stem import PorterStemmer

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

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

Out[190... True

```
In [219... stop_words = set(stopwords.words('english'))
lemmatizer = WordNetLemmatizer()
ps = PorterStemmer()

def preprocess_text(text):
    text = text.lower()
    text = re.sub(r"^\w\s", '', text) # Remove anything that's not a character
    tokens = text.split() # Use word level tokens
    tokens = [t for t in tokens if t not in stop_words] # Remove stop words
    # tokens = [lemmatizer.lemmatize(t) for t in tokens] # Lemmatise words
    tokens = [ps.stem(word) for word in tokens] # Stem the words

    return ' '.join(tokens)

def preprocess_data(df):
    df = df.copy()

    # Remove duplicates
    df = df.drop_duplicates()
```

```

# Add column for has_korean
df.loc[:, 'has_korean'] = df['lyrics'].apply(contains_korean)

# Change non alpha numeric text to underscores in artist name (including pun
def replace_non_alphanum_with_underscores(text):
    return re.sub(r'^\w', '_', text)
df.loc[:, 'artist_name'] = df['artist_name'].apply(replace_non_alphanum_with_

# Define document column which contains all the info per song
# Concatenate lyrics and track name first
df.loc[:, 'document'] = df['lyrics'] + ' ' + df['track_name']
df.loc[:, 'document'] = df['document'].apply(preprocess_text)

# Concatenate the rest with the format <column_name>_<value> to document
cols = ['artist_name', 'genre', 'release_date']
def concat_columns(row):
    parts = []
    for col in cols:
        val = str(row[col]) if pd.notna(row[col]) else ''
        if val:
            parts.append(f"{col}_{val}")

    if row["has_korean"]:
        parts.append("has_korean")

    return ' '.join(parts)

df.loc[:, 'document'] = df['document'] + ' ' + df.apply(concat_columns, axis=

return df

```

```

In [117... # Preprocess data
df = preprocess_data(df)

```

```

In [38]: # Sense check output of document
all_words = ' '.join(df['document']).split()

word_counts = Counter(all_words)

print(f"Number of unique tokens: {len(word_counts)}")
print()

for word, count in sorted(word_counts.items()):
    print(f"{word}: {count}")

```

Number of unique tokens: 9491

1: 2  
100: 1  
10000: 1  
14: 1  
1985: 1  
1993: 1  
1st: 1  
2: 3  
21: 1  
250: 1  
28: 1  
2nd: 1  
3: 1  
30: 1  
316: 1  
357: 1  
365: 1  
420reincarnated: 1  
45: 1  
46: 1  
4ever: 1  
6: 1  
600: 1  
6am: 1  
6lack: 1  
7: 2  
7ts: 1  
86: 1  
9: 1  
aaaah: 10  
aaah: 10  
aaahaha: 2  
aand: 1  
ababa: 2  
aback: 1  
abandon: 5  
abdicate: 2  
aberration: 1  
abide: 4  
ability: 1  
ablaze: 5  
able: 9  
abolition: 1  
abomination: 2  
abound: 1  
abroad: 1  
absense: 2  
absent: 1  
absolute: 7  
absolutely: 42  
absolution: 2  
absoul: 1  
abstain: 1  
absurd: 1  
abundantly: 1  
abuse: 10  
abysm: 1  
accelerate: 1

accent: 2  
accept: 6  
access: 1  
accident: 1  
acclimate: 1  
accompany: 1  
accomplishment: 1  
accord: 1  
accordion: 1  
accumulation: 3  
accurate: 2  
accusation: 1  
accuse: 3  
accustom: 1  
acdc: 1  
ace: 4  
ache: 20  
achieve: 1  
acid: 3  
acidfaced: 2  
acknowledge: 1  
acoustic: 3  
acquire: 2  
acrid: 1  
acryin: 1  
act: 14  
actin: 4  
action: 14  
activate: 1  
active: 1  
activity: 1  
actress: 1  
actually: 2  
ada: 1  
adage: 1  
adamant: 3  
adamantine: 1  
adapt: 1  
add: 10  
addict: 15  
addiction: 11  
addictive: 2  
additional: 1  
address: 2  
adjust: 2  
adler: 1  
admirer: 1  
admit: 13  
adrenaline: 2  
adrift: 1  
advance: 1  
advantage: 4  
adventure: 1  
adverse: 2  
advertise: 1  
advice: 24  
afalling: 1  
afar: 10  
affair: 1  
affect: 1

affection: 5  
affi: 2  
affliction: 2  
afford: 10  
aflame: 1  
afraid: 84  
africa: 4  
african: 4  
afro: 2  
afterglow: 4  
afterlife: 7  
afternoon: 12  
aftrhrs: 1  
againthe: 1  
age: 6  
ageless: 1  
agenda: 1  
aggressive: 1  
agin: 1  
agitate: 1  
agnus: 1  
agony: 7  
agree: 13  
aground: 3  
ah: 1  
ahaaa: 2  
ahaaha: 1  
ahab: 1  
ahah: 6  
ahahaan: 1  
ahdame: 1  
ahead: 62  
ahha: 5  
ahhahhahhahh: 4  
ahhh: 1  
ahmadiyyan: 1  
ahoh: 4  
ahugh: 1  
aid: 1  
aim: 1  
aimlessly: 7  
aint: 6  
air: 2  
airbourne: 6  
airframe: 1  
airplane: 1  
airwave: 1  
aisha: 1  
aisle: 2  
ala: 2  
alabam: 1  
alabama: 2  
alamo: 1  
alarm: 29  
albatross: 3  
albin: 1  
alborosie: 2  
album: 5  
albuquerque: 1  
alchemist: 2

alcohol: 4  
alessia: 1  
alesso: 1  
alexandria: 1  
alibi: 3  
alice: 1  
alien: 7  
alight: 13  
align: 4  
aligner: 2  
alignment: 1  
alika: 1  
alike: 4  
alive: 229  
aliyah: 1  
alkaline: 1  
alkan: 1  
allahlas: 1  
allamerican: 1  
alldreaded: 1  
alle: 2  
allegation: 3  
allegiance: 4  
allegiant: 1  
allergic: 1  
alleviate: 1  
alliance: 1  
allow: 13  
allusion: 1  
almighty: 1  
almost: 1  
alone: 1  
alonea: 1  
alongggg: 1  
alot: 1  
aloud: 1  
alout: 1  
alphabet: 1  
alright: 109  
alrighty: 2  
alta: 1  
altar: 5  
altaring: 1  
alter: 6  
alternate: 1  
altima: 1  
altj: 1  
altogether: 1  
always: 4  
amani: 1  
amateur: 1  
amaze: 26  
amazon: 1  
ambassador: 1  
ambience: 1  
ambiguity: 1  
ambition: 3  
ambush: 1  
amen: 12  
amend: 2

america: 12  
american: 41  
amiss: 3  
ammunition: 1  
amnesia: 1  
amnesty: 1  
amor: 9  
amount: 1  
amour: 2  
amphetamine: 1  
amplify: 3  
amsterdam: 6  
anal: 1  
analyse: 2  
analyze: 3  
anarchy: 1  
ancestor: 1  
ancestral: 4  
ancestry: 1  
anchor: 13  
ancient: 8  
anderson: 3  
andes: 1  
android: 1  
andré: 2  
andwae: 1  
anew: 3  
anga: 1  
angel: 23  
angelaangela: 1  
angelic: 1  
anger: 3  
angle: 2  
angoisse: 1  
angry: 20  
anheuser: 3  
animal: 29  
animosity: 1  
anjenae: 1  
annihilation: 1  
anniversary: 12  
anoint: 1  
another: 1  
answer: 37  
ant: 1  
antechamber: 1  
antemasque: 1  
antenna: 1  
anthem: 8  
anthill: 5  
anticipate: 2  
anticipation: 8  
antifreeze: 1  
antiquity: 1  
anxiety: 3  
anxious: 4  
anybody: 20  
anyday: 1  
anyhow: 1  
anymore: 63



anything: 1  
anytime: 19  
anyway: 2  
anyweh: 2  
aokay: 1  
aone: 13  
aorta: 1  
apart: 152  
apartment: 8  
apathetic: 1  
apathy: 6  
aphrodisiac: 1  
aphrodite: 1  
apocalypse: 1  
apologize: 5  
apology: 13  
apostle: 1  
appear: 8  
appeasement: 1  
appetite: 2  
appetizer: 1  
appetizing: 1  
applaud: 1  
applause: 5  
apple: 13  
application: 2  
apply: 1  
appointment: 2  
appraise: 1  
appreciate: 4  
approach: 1  
aqui: 1  
archer: 4  
archetype: 1  
architect: 3  
area: 2  
argentina: 2  
argue: 8  
argument: 1  
arianna: 1  
arise: 4  
arising: 1  
aristocrat: 1  
arm: 121  
armageddon: 2  
armata: 6  
armor: 11  
army: 6  
aroma: 1  
around: 7  
arouse: 2  
arrange: 1  
arrest: 1  
arrive: 21  
arrogance: 3  
arrow: 12  
arsonist: 1  
art: 1  
artesian: 1  
artificial: 1

artist: 2  
artist\_name\_10\_years: 1  
artist\_name\_311: 5  
artist\_name\_5\_seconds\_of\_summer: 1  
artist\_name\_8ball\_&mjg: 1  
artist\_name\_a-ha: 1  
artist\_name\_a\_day\_to\_remember: 1  
artist\_name\_a\_great\_big\_world: 1  
artist\_name\_a\_perfect\_circle: 1  
artist\_name\_a\_r\_i\_z\_o\_n\_a: 5  
artist\_name\_a\_tribe\_called\_quest: 1  
artist\_name\_aaliyah: 2  
artist\_name\_aaron\_lewis: 2  
artist\_name\_aaron\_shust: 1  
artist\_name\_aaron\_watson: 1  
artist\_name\_ab-soul: 1  
artist\_name\_abstract\_orchestra: 1  
artist\_name\_adam\_doleac: 2  
artist\_name\_adam\_hambrick: 1  
artist\_name\_adam\_jensen: 2  
artist\_name\_adele: 1  
artist\_name\_adelitas\_way: 1  
artist\_name\_ajmw: 1  
artist\_name\_ajr: 5  
artist\_name\_albert\_castiglia: 1  
artist\_name\_albert\_hammond,\_jr.: 3  
artist\_name\_alborosie: 2  
artist\_name\_alec\_benjamin: 4  
artist\_name\_alessia\_cara: 2  
artist\_name\_alesso: 1  
artist\_name\_alfa\_mist: 3  
artist\_name\_ali\_gatie: 1  
artist\_name\_alice\_cooper: 1  
artist\_name\_all\_them\_witches: 7  
artist\_name\_allen\_toussaint: 1  
artist\_name\_alt-j: 1  
artist\_name\_american\_authors: 1  
artist\_name\_anders\_osborne: 2  
artist\_name\_anderson\_east: 7  
artist\_name\_andy\_grammer: 1  
artist\_name\_anita\_baker: 6  
artist\_name\_annella: 1  
artist\_name\_ansel\_elgort: 1  
artist\_name\_anthony\_gomes: 1  
artist\_name\_arcade\_fire: 1  
artist\_name\_ardhito\_pramono: 1  
artist\_name\_ariana\_grande: 3  
artist\_name\_ariel\_pink: 1  
artist\_name\_ashley\_monroe: 1  
artist\_name\_astrid\_s: 1  
artist\_name\_au/ra: 1  
artist\_name\_audio\_two: 1  
artist\_name\_august\_greene: 2  
artist\_name\_avail\_hollywood: 2  
artist\_name\_avril\_lavigne: 1  
artist\_name\_axian: 2  
artist\_name\_ayokay: 1  
artist\_name\_babe\_rainbow: 4  
artist\_name\_badflower: 2  
artist\_name\_ballyhoo!: 4

artist\_name\_band\_of\_rascals: 1  
artist\_name\_banes\_world: 2  
artist\_name\_banners: 1  
artist\_name\_barns\_courtney: 2  
artist\_name\_bastille: 3  
artist\_name\_bazzi: 1  
artist\_name\_beach\_house: 1  
artist\_name\_bebe\_rexha: 1  
artist\_name\_bedroom: 1  
artist\_name\_benjamin\_booker: 2  
artist\_name\_beres\_hammond: 1  
artist\_name\_bernard\_allison: 1  
artist\_name\_beth\_hart: 1  
artist\_name\_between\_the\_buried\_and\_me: 2  
artist\_name\_big\_&\_rich: 1  
artist\_name\_big\_daddy\_kane: 1  
artist\_name\_big\_daddy\_weave: 1  
artist\_name\_big\_yayo: 1  
artist\_name\_bill\_charlap\_trio: 1  
artist\_name\_billie\_eilish: 6  
artist\_name\_billy\_bi\$hop: 2  
artist\_name\_birdtalker: 1  
artist\_name\_bishop\_briggs: 3  
artist\_name\_black\_joe\_lewis\_&\_the\_honeybears: 1  
artist\_name\_black\_lips: 1  
artist\_name\_black\_mountain: 2  
artist\_name\_black\_pistol\_fire: 8  
artist\_name\_black\_rebel\_motorcycle\_club: 3  
artist\_name\_black\_sabbath: 1  
artist\_name\_blackalicious: 1  
artist\_name\_blackbear: 1  
artist\_name\_blackbird\_hill: 1  
artist\_name\_blake\_shelton: 2  
artist\_name\_blanco\_brown: 1  
artist\_name\_blink-182: 1  
artist\_name\_blues\_saraceno: 7  
artist\_name\_bluntone: 2  
artist\_name\_bob\_weir: 2  
artist\_name\_bon\_iver: 1  
artist\_name\_boney\_james: 2  
artist\_name\_bonobo: 1  
artist\_name\_boogie\_belgique: 1  
artist\_name\_brad\_paisley: 1  
artist\_name\_brand\_nubian: 1  
artist\_name\_brandon\_ratcliff: 1  
artist\_name\_brant\_bjork: 1  
artist\_name\_brantley\_gilbert: 1  
artist\_name\_breaking\_benjamin: 7  
artist\_name\_brent\_cobb: 1  
artist\_name\_brett\_eldredge: 1  
artist\_name\_brett\_young: 6  
artist\_name\_brian\_culbertson: 1  
artist\_name\_broken\_bells: 1  
artist\_name\_brooks\_&\_dunn: 1  
artist\_name\_brothers\_osborne: 3  
artist\_name\_bryce\_fox: 1  
artist\_name\_bts: 2  
artist\_name\_buczer: 1  
artist\_name\_buddy\_guy: 3  
artist\_name\_bullet\_for\_my\_valentine: 1

artist\_name\_bumpin\_uglies: 1  
artist\_name\_busta\_rhymes: 1  
artist\_name\_børns: 1  
artist\_name\_cafe\_jazz\_deluxe: 5  
artist\_name\_cage\_the\_elephant: 4  
artist\_name\_calvin\_harris: 1  
artist\_name\_camila\_cabello: 2  
artist\_name\_capleton: 1  
artist\_name\_car\_bomb: 4  
artist\_name\_cardi\_b: 1  
artist\_name\_caro\_emerald: 1  
artist\_name\_carol\_welsman: 1  
artist\_name\_carrie\_underwood: 2  
artist\_name\_casey\_donahew: 1  
artist\_name\_cass\_mccombs: 1  
artist\_name\_casting\_crowns: 2  
artist\_name\_charles\_kelley: 1  
artist\_name\_charlie\_farley: 1  
artist\_name\_charlie\_parr: 1  
artist\_name\_charlie\_puth: 1  
artist\_name\_charlotte\_dos\_santos: 1  
artist\_name\_chase\_bryant: 1  
artist\_name\_chase\_rice: 2  
artist\_name\_chelsea\_cutler: 1  
artist\_name\_chon: 2  
artist\_name\_chris\_cornell: 1  
artist\_name\_chris\_janson: 1  
artist\_name\_chris\_smither: 1  
artist\_name\_chris\_stapleton: 4  
artist\_name\_chris\_young: 1  
artist\_name\_christie\_huff: 1  
artist\_name\_chronixx: 1  
artist\_name\_circa\_waves: 1  
artist\_name\_clairo: 1  
artist\_name\_cody\_jinks: 3  
artist\_name\_cody\_johnson: 2  
artist\_name\_cold\_war\_kids: 2  
artist\_name\_cole\_swindell: 1  
artist\_name\_crowder: 3  
artist\_name\_crumb: 2  
artist\_name\_current\_swell: 2  
artist\_name\_curtis\_salgado: 1  
artist\_name\_cyrille\_aimee: 1  
artist\_name\_d.ace: 1  
artist\_name\_damian\_marley: 5  
artist\_name\_dan+\_shay: 2  
artist\_name\_dan\_auerbach: 1  
artist\_name\_daniel\_caesar: 2  
artist\_name\_danielle\_nicole: 2  
artist\_name\_danny\_black: 1  
artist\_name\_dave\_edmunds: 1  
artist\_name\_davido: 1  
artist\_name\_daya: 2  
artist\_name\_dean\_lewis: 3  
artist\_name\_deap\_vally: 1  
artist\_name\_death\_cab\_for\_cutie: 2  
artist\_name\_death\_from\_above\_1979: 6  
artist\_name\_deca: 3  
artist\_name\_deeb: 2  
artist\_name\_deep\_purple: 1

artist\_name\_delbert\_mcclinton: 1  
artist\_name\_demun\_jones: 1  
artist\_name\_dennis\_lloyd: 1  
artist\_name\_derek\_b: 1  
artist\_name\_des\_rocs: 4  
artist\_name\_devin\_townsend: 2  
artist\_name\_devin\_townsend\_project: 2  
artist\_name\_diana\_krall: 5  
artist\_name\_die\_antwoord: 1  
artist\_name\_dierks\_bentley: 3  
artist\_name\_digitalluc: 1  
artist\_name\_dirt\_rock\_empire: 1  
artist\_name\_dirty\_heads: 9  
artist\_name\_dispatch: 6  
artist\_name\_disperse: 1  
artist\_name\_dj\_grumble: 1  
artist\_name\_dj\_khaled: 1  
artist\_name\_dnce: 1  
artist\_name\_dodie: 1  
artist\_name\_don\_carlos: 1  
artist\_name\_don\_philippe: 1  
artist\_name\_dorothy: 12  
artist\_name\_dove\_cameron: 1  
artist\_name\_dr.\_dog: 1  
artist\_name\_dr.\_john: 1  
artist\_name\_drake: 1  
artist\_name\_drake\_white: 1  
artist\_name\_dreamers: 1  
artist\_name\_dreamville: 1  
artist\_name\_dua\_lipa: 1  
artist\_name\_dylan\_scott: 1  
artist\_name\_eagles\_of\_death\_metal: 1  
artist\_name\_ed\_sheeran: 4  
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wellrested: 6  
welt: 1  
welter: 1  
werewolf: 1  
wesson: 1  
westside: 1  
westward: 2  
westway: 7  
wether: 1  
whackamole: 1  
whale: 1  
wham: 1  
whassup: 1  
whatcha: 14  
whatever: 3  
whats: 3  
wheel: 24  
whereisalex: 1  
whereyougonnago: 1

whew: 2  
 whewheel: 2  
 whichever: 1  
 whiff: 1  
 while: 1  
 whilst: 1  
 whim: 1  
 whine: 5  
 whinin: 1  
 whip: 15  
 whippin: 2  
 whirlwind: 1  
 whiskey: 32  
 whisky: 1  
 whisper: 34  
 whisperin: 1  
 whistle: 13  
 whistler: 2  
 white: 104  
 whiteknuckle: 1  
 whiten: 1  
 whiter: 3  
 whitesnake: 1  
 whiz: 1  
 whoa: 122  
 whoaa: 1  
 whoaaa: 1  
 whoah: 7  
 whoaoh: 3  
 whoaohoh: 15  
 whoaohohoh: 12  
 whoaohohohohoh: 4  
 whoaowhoa: 1  
 whoawhoa: 4  
 whoawhoawhoa: 1  
 whofa: 1  
 whoiie: 1  
 whola: 1  
 whole: 4  
 whoo: 2  
 whooa: 1  
 whooaa: 2  
 whooaaaahh: 1  
 whooaaaahh: 1  
 whoooo: 3  
 whoooaa: 3  
 whoooooaaaahhhh: 1  
 whooooah: 1  
 whooooh: 4  
 whoooohh: 10  
 whoooooawhoooooa: 2  
 whooooooa: 1  
 wick: 2  
 wicked: 66  
 wickedness: 2  
 wickness: 1  
 wide: 88  
 wider: 3  
 widow: 1  
 wiedersehen: 3

wield: 1  
wife: 24  
wifey: 1  
wifi: 2  
wild: 30  
wilderness: 1  
wildest: 1  
wildeyed: 1  
wildfire: 4  
wildflower: 5  
willin: 1  
willingness: 2  
wilt: 2  
wily: 1  
win: 21  
wind: 91  
winding: 1  
window: 52  
windowless: 1  
windpipe: 1  
windshield: 1  
windswept: 1  
wine: 31  
wing: 57  
wink: 3  
winner: 6  
winning: 1  
wino: 3  
winter: 32  
wipe: 10  
wire: 38  
wirlwinds: 2  
wisdom: 11  
wise: 14  
wiser: 1  
wisest: 2  
wish: 281  
wishbone: 1  
wishful: 4  
wishin: 12  
wit: 3  
witch: 6  
witcha: 3  
withdraw: 3  
wither: 11  
within: 2  
without: 7  
withstain: 1  
withstand: 1  
witness: 17  
woaaahh: 1  
woaaoh: 1  
woah: 136  
woahoh: 8  
woahohoh: 3  
woahohohoh: 1  
woahooh: 2  
woahwoah: 2  
wobble: 1  
woe: 2

woehwoah: 1  
woii: 1  
wolf: 9  
woman: 98  
womankind: 1  
womanogomy: 1  
wonder: 136  
wonderful: 32  
wonderfully: 1  
wonderin: 1  
wonderland: 1  
wondrous: 2  
wonn: 1  
wont: 6  
wood: 6  
wooden: 1  
woodlief: 1  
woodwork: 1  
wooh: 6  
woohoo: 8  
wooooh: 2  
woooohoo: 4  
wooooooah: 6  
wooooooooooah: 1  
wooyaay: 1  
word: 174  
wordless: 1  
work: 123  
worker: 1  
workflow: 2  
workin: 3  
world: 752  
worldwide: 2  
worm: 2  
worry: 50  
worryin: 2  
worse: 25  
worship: 17  
worst: 47  
worthless: 1  
worthlessness: 1  
worthwhile: 3  
worthy: 1  
woss: 4  
would: 3  
wouldnt: 1  
wound: 28  
wowoah: 4  
wrap: 32  
wrath: 7  
wrathful: 1  
wreck: 23  
wreckage: 1  
wrench: 1  
wrestle: 4  
wretched: 5  
wrinkle: 1  
wrist: 7  
write: 135  
writhe: 3

writin: 1  
wroldsen: 1  
wrong: 227  
wukliss: 1  
wurlitzer: 1  
wwwalking: 2  
wyld: 1  
wyoming: 8  
xanadu: 1  
xanax: 1  
xanny: 1  
xi: 1  
xiii: 1  
xmachine: 2  
xray: 2  
xuitcasecity: 1  
xxxtentacion: 2  
ya: 3  
yaaaaa: 1  
yaah: 1  
yacthy: 1  
yaknahmean: 1  
yam: 2  
yang: 2  
yaow: 1  
yarborough: 1  
yawn: 2  
yeaaaaaah: 1  
yeaaah: 1  
yeah: 1242  
yeahah: 5  
yeahahahah: 2  
yeaheh: 4  
yeaheheh: 16  
yeahey: 1  
yeahh: 2  
yeahheh: 1  
yeahhey: 1  
yeahyeah: 33  
year: 218  
yearn: 3  
yeayeayeayah: 3  
yeeah: 3  
yeeeeeaaaaaah: 1  
yeeh: 4  
yeheheh: 1  
yeld: 1  
yell: 11  
yelle: 1  
yellow: 21  
yelp: 1  
yeongwonhagil: 1  
yeongwonhi: 1  
yeongyeong: 4  
yesterday: 75  
yesteryear: 2  
yet: 1  
yeti: 1  
ynnox: 1  
yo: 1



yonder: 3  
yoohooh: 2  
york: 3  
youll: 1  
young: 146  
younger: 19  
youngin: 1  
youooh: 2  
youou: 4  
yououou: 2  
youre: 4  
youself: 1  
yout: 3  
youth: 47  
youthes: 1  
youthful: 3  
youtube: 1  
youve: 3  
yoyo: 1  
yuna: 1  
yung: 3  
yute: 4  
z: 1  
zagadat: 14  
zapita: 1  
zatopa: 1  
zeal: 1  
zenith: 1  
zeppelin: 1  
zero: 2  
zesty: 1  
zillion: 1  
zilly: 1  
zindagi: 11  
zion: 6  
zip: 2  
zombie: 8  
zona: 1  
zone: 10  
zoom: 4  
ácido: 1  
âcause: 2  
älska: 1  
église: 1  
étais: 1  
étoiles: 1  
órale: 1  
валуев: 1  
그때처럼: 1  
기어서라도: 1  
기억해주길: 1  
돌아보길: 1  
마지막은: 1  
멈췄으면: 1  
무너지지마: 1  
믿는다면: 3  
믿었기에: 1  
바라보는: 1  
바라봐주길: 1  
방탄소년단의: 1

방탄이란: 1  
뱀새들아: 4  
언젠가는: 1  
없었던단다: 1  
영원하길: 1  
유리천장: 1  
잃어버리지마: 4  
잊어버리지마: 7  
친구들아: 2  
트램펄린: 1  
한번쯤은: 1  
함께라는: 1  
finished: 1

## Q1.1 + Q1.3

---

### Choice of Evaluation Metrics

Accuracy is easy to interpret but can be biased towards majority class.

Macro F1 gives equal weight to each class but may over-penalise small classes.

I have selected **F1 macro** as the main evaluation metric as our label is imbalanced. This makes sure minority classes have equal weights to the final score while taking into account of both precision and recall.

---

### Evaluation using 5-fold cross validation instead of train test split

A **5-fold cross-validation** (CV) strategy is used to evaluate the models. Considering the size of the dataset is quite small (~1500 rows), it benefits to use cv to give us a more accurate picture of model performance

---

### Results: Comparison of performance between BNB and MNB

As we can see below, MNB has a F1 macro score of **0.74** while BNB only has roughly half of that at **0.33**. We can conclude that **MNB is the superior model**.

This is likely because MNB models term frequency better, while BNB assumes binary features which may discard useful information to the model.

```
In [221... X = df['document']  
y = df['topic']
```

```
In [222... from sklearn.pipeline import Pipeline  
from sklearn.feature_extraction.text import CountVectorizer  
from sklearn.model_selection import StratifiedKFold, cross_val_score  
from sklearn.naive_bayes import BernoulliNB, MultinomialNB  
import numpy as np  
  
bnb_pipeline = Pipeline([  
    ('vect', CountVectorizer()),  
    ('clf', BernoulliNB())  
])
```

```

mnb_pipeline = Pipeline([
    ('vect', CountVectorizer()),
    ('clf', MultinomialNB())
])

# Use 5-fold cross-validation to evaluate model
# fixed seed for reproducibility
cv = StratifiedKFold(n_splits=5, shuffle=True, random_state=42)

bnb_scores = cross_val_score(bnb_pipeline, X, y, cv=cv, scoring='f1_macro')
mnb_scores = cross_val_score(mnb_pipeline, X, y, cv=cv, scoring='f1_macro')

```

```

In [223... import matplotlib.pyplot as plt
def plot_model_scores(score_dict):
    models = list(score_dict.keys())
    scores = list(score_dict.values())

    plt.figure(figsize=(8, 5))
    bars = plt.bar(models, scores, color='skyblue')

    plt.ylabel("Mean F1 Macro Score")
    plt.title("Model Performance Comparison (5 fold cv)")

    # Annotate the bars
    for bar in bars:
        height = bar.get_height()
        plt.text(bar.get_x() + bar.get_width() / 2, height + 0.01, f'{height:.3f}',
                 ha='center', va='bottom')

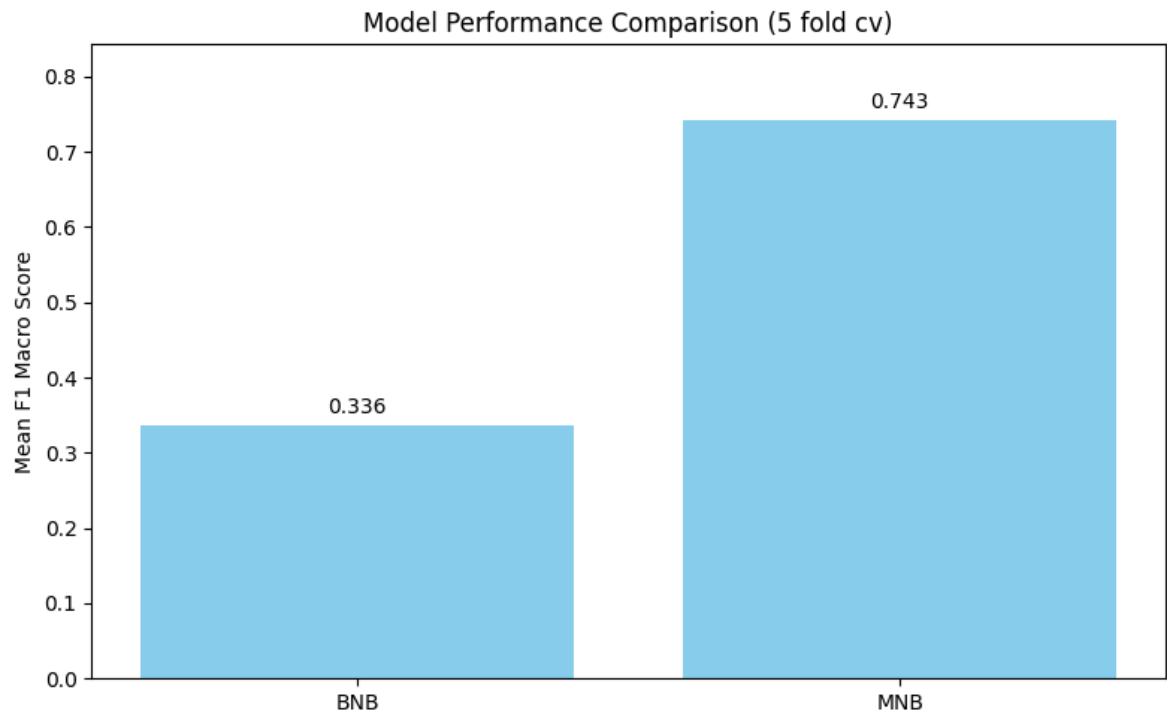
    plt.ylim(0, max(scores) + 0.1)
    plt.tight_layout()
    plt.show()

```

```

In [224... model_scores = {}
model_scores["BNB"] = bnb_scores.mean()
model_scores["MNB"] = mnb_scores.mean()
plot_model_scores(model_scores)

```



## Q1.4

### Vocabulary size on classification performance

When the number of features  $N$  is small, both BernoulliNB and MultinomialNB models perform poorly. This is likely due to underfitting as the models lack sufficient information to distinguish between classes.

As  $N$  increases, so does the performance, where both model achieved best performance when  $N = 500$ . Increasing  $N$  from this point leads to worse performance, signalling model overfitting past this point

```
In [197... feature_sizes = [50, 100, 250, 500, 1000, 2000, 5000, None]
bnb_scores, mnb_scores = [], []

for n in feature_sizes:
    bnb_pipeline = Pipeline([('vect', CountVectorizer(max_features=n)), ('clf',
    mnb_pipeline = Pipeline([('vect', CountVectorizer(max_features=n)), ('clf',

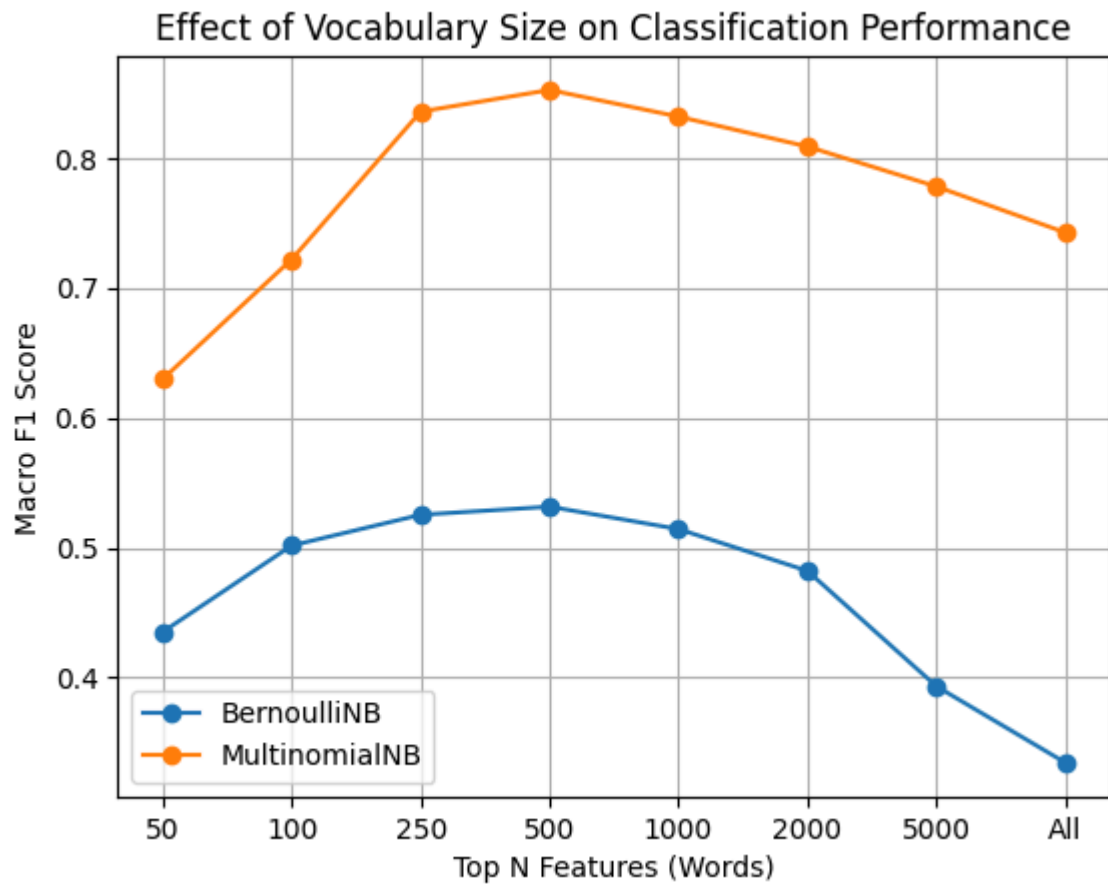
    bnb_f1 = cross_val_score(bnb_pipeline, X, y, cv=cv, scoring='f1_macro').mean
    mnb_f1 = cross_val_score(mnb_pipeline, X, y, cv=cv, scoring='f1_macro').mean

    bnb_scores.append(bnb_f1)
    mnb_scores.append(mnb_f1)
```

```
In [198... import matplotlib.pyplot as plt

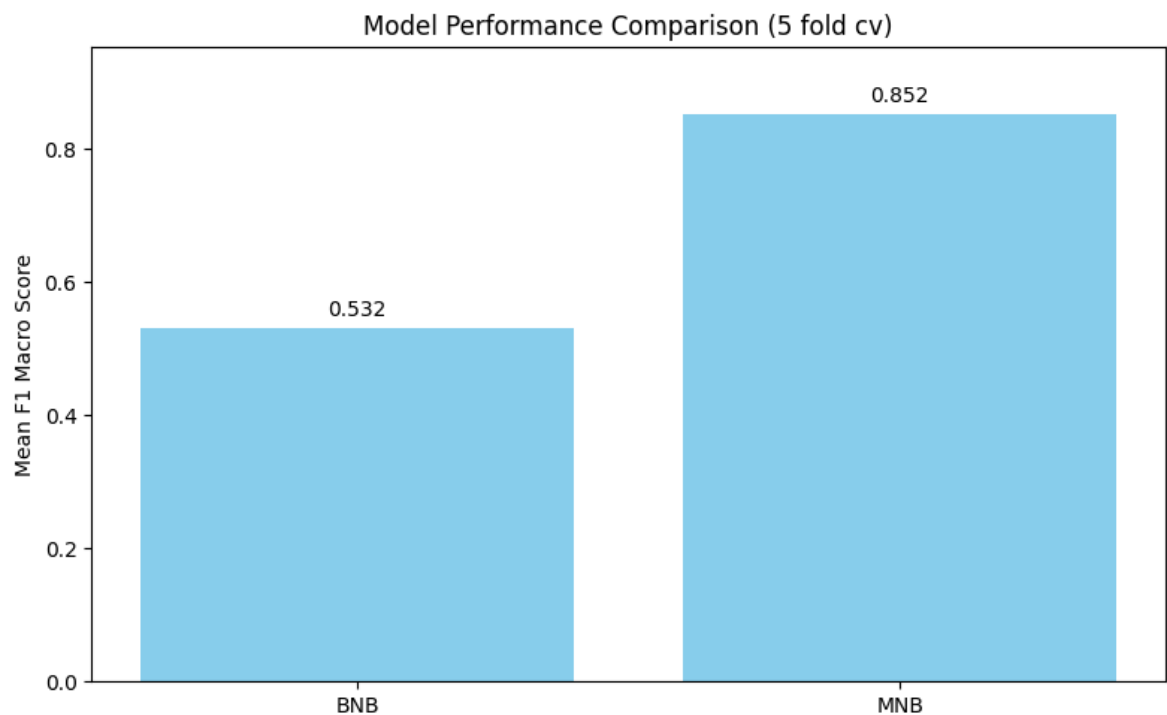
plt.plot(feature_sizes[:-1] + ['All'], bnb_scores, marker='o', label='BernoulliNB')
plt.plot(feature_sizes[:-1] + ['All'], mnb_scores, marker='o', label='MultinomialNB')
plt.xlabel("Top N Features (Words)")
plt.ylabel("Macro F1 Score")
plt.title("Effect of Vocabulary Size on Classification Performance")
plt.legend()
```

```
plt.grid(True)
plt.show()
```



In [199...

```
# Model performance using most optimal N
model_scores = {}
model_scores["BNB"] = bnb_scores[optimal_ind]
model_scores["MNB"] = mnb_scores[optimal_ind]
plot_model_scores(model_scores)
```



## Q1.5 Alternative ML method

---

### Gradient Boosted Models (GBM)

I have chosen to use `HistGradientBoostingClassifier` which is a sklearn implementation of gradient-boosted decision trees. Unlike Naive Bayes, which assumes feature independence and uses simple probabilistic rules, this method builds an ensemble of decision trees sequentially, using a technique called boosting where each new tree corrects the errors of the previous ones. Theoretically, this makes it more flexible and powerful for capturing complex, non-linear relationships in the data. Empirically, GBMs has been successfully applied in many ML prediction tasks and has been shown to outperform deep learning models on tabular data (source: <https://www.sciencedirect.com/science/article/abs/pii/S1566253521002360#preview-section-abstract>). This makes it a natural model choice for our topic classification task and the **hypothesis is this model will outperform both BNB and MNB for the reasons above**

### Pipeline outline

1. Use the same data from before
2. Run through a `TfidfVectorizer` (with `num_features` set to `500`) - this was the most optimal setting after experimenting using `CountVectorizer` along with other N values
3. Convert it to a dense array
4. Train a `HistGradientBoostingClassifier`
5. Do a 5 fold cross validation similar to MNB and BNB

Note:

- Hyperparameters (tree depth, leaf size, regularization, max\_features) were tuned using `GridSearchCV`
- `class_weight` parameter was also set as `balanced` to reweight training losses (as our class is imbalanced)
- A 20% eval set with early stopping is used to determine number of trees

### Results

The final GBM model had a F1 macro score of **0.7**. This unfortunately did not outperform MNB (0.85) but it did outperform BNB (0.54). This is most likely due to a combination of lack of data (<=1500 rows), large feature space (500 features) and sparsity of the feature space.

Hypothesis has therefore been disproven. **MNB is the superior model and will be used for the rest of the assignment**

```
In [79]: # Hyperparameter tuning (grid search)
from sklearn.model_selection import GridSearchCV
from sklearn.pipeline import Pipeline
```

```

from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.preprocessing import FunctionTransformer
from sklearn.ensemble import HistGradientBoostingClassifier

model = HistGradientBoostingClassifier(
    max_iter=1000,
    class_weight="balanced", # Using this as label is imbalanced
    learning_rate=0.5,
    random_state=42,
    # Early stopping parameters
    early_stopping=True,
    scoring="f1_macro",
    n_iter_no_change=20,
    validation_fraction=0.2,
    # # Hyperparameters
    # max_depth=10,
    # max_leaf_nodes=31,
    # l2_regularization=1.0,
    # min_samples_leaf=20,
    # max_features=0.75,
)

pipeline = Pipeline([
    ('vect', TfidfVectorizer(max_features=500)), # Tested with CountVectorizer a
    ('to_dense', FunctionTransformer(lambda x: x.toarray(), accept_sparse=True))
    ('clf', model)
])

# Grid of hyperparameters to search
param_grid = {
    'clf__max_depth': [5, 10],
    'clf__max_leaf_nodes': [15, 31],
    'clf__l2_regularization': [0.1, 1.0, 5.0],
    'clf__min_samples_leaf': [1, 5, 10, 20],
    'clf__max_features': [0.5, 0.75, 1.0]
}

# Grid search
grid = GridSearchCV(
    estimator=pipeline,
    param_grid=param_grid,
    scoring='f1_macro',
    cv=2,
    n_jobs=-1,
    verbose=True
)

grid.fit(X, y)

# Best params
print("Best Parameters:", grid.best_params_)
print("Best F1 Score on Training Set:", grid.best_score_)

```

Fitting 2 folds for each of 144 candidates, totalling 288 fits

Best Parameters: {'clf\_\_l2\_regularization': 0.1, 'clf\_\_max\_depth': 10, 'clf\_\_max\_features': 0.75, 'clf\_\_max\_leaf\_nodes': 15, 'clf\_\_min\_samples\_leaf': 1}

Best F1 Score on Training Set: 0.6592478931138503

In [200...

```

model = HistGradientBoostingClassifier(
    max_iter=1000,

```

```

class_weight="balanced",
learning_rate=0.01,
random_state=42,
# Early stopping parameters
early_stopping=True,
scoring="f1_macro",
n_iter_no_change=50,
validation_fraction=0.2,
# Hyperparameters (These are from the best parameters)
max_depth=10,
max_leaf_nodes=15,
l2_regularization=0.1,
min_samples_leaf=1,
max_features=0.75,
)

pipeline = Pipeline([
    ('vect', TfidfVectorizer(max_features=500)),
    ('to_dense', FunctionTransformer(lambda x: x.toarray(), accept_sparse=True)),
    ('clf', model)
])
gbm_scores = cross_val_score(pipeline, X, y, cv=cv, scoring='f1_macro')

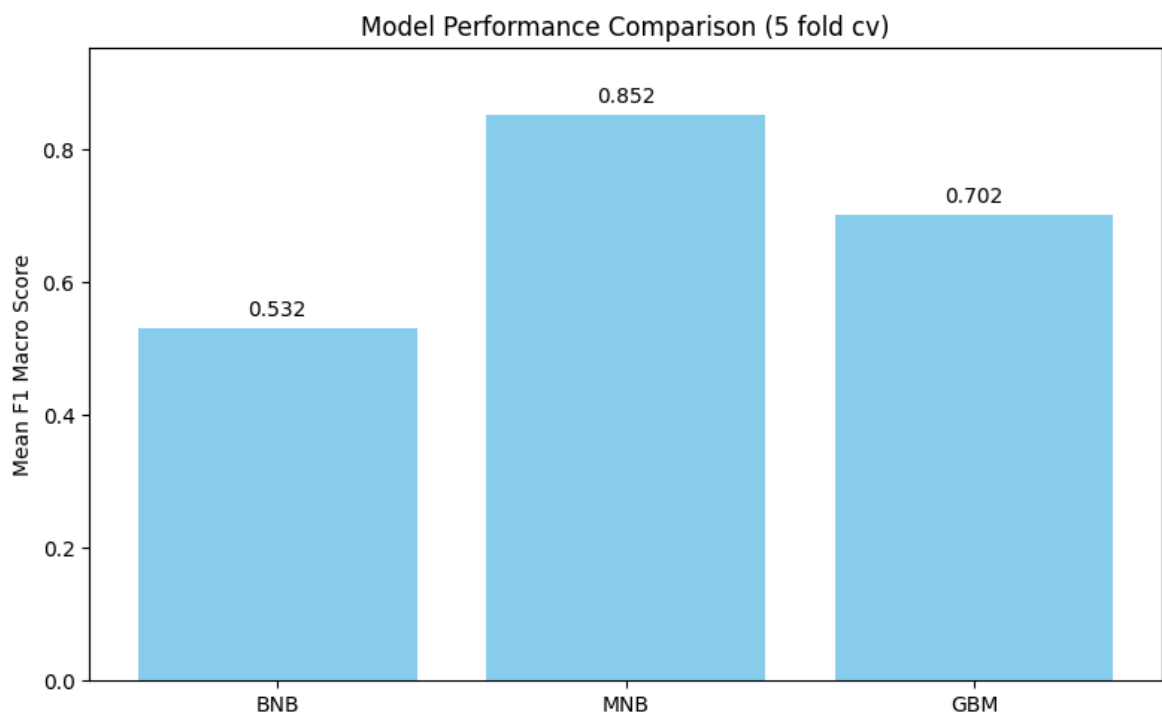
```

In [201...

```

model_scores["GBM"] = gbm_scores.mean()
plot_model_scores(model_scores)

```



## PART TWO

### Pipeline overview for Part 2

1. **(start of Q2.1)** Data preprocessing
  - A. Split data into train (first 750 rows) and test (row 751-1000)
  - B. Preprocess data using same logic from part one



2. Train a topic classifier model on train data using same pipeline/logic from part 2 (MNB with N=500)
3. Get predicted topic for each songs in train and test
4. For each predicted topic, fit a tfidf vectorizer on train data
5. Constructing user profile:
  - A. For each topic:
    - a. Grab list of user keywords
    - b. Since we have run some text preprocessing logic to our song representation (i.e. `document` column), we need to make sure that we run the same text preprocessing logic to the keywords as well. We append these additional keywords to the original list of keywords
    - c. Search for songs which `document` column contains at least one of the keywords
    - d. These songs are then combined by concatenating the `document` column
    - e. Run this user profile through our vectorizer
    - f. This gives us user profile's tfidf vectors
    - g. Get top M words ranked by TFIDF values
6. **(start of Q2.2)** To form recommendation for each user:
  - A. For each topic:
    - a. Grab top M words ranked by TFIDF values of user profile
    - b. Calculate distance to each of the songs in test set
    - c. Show top N songs closest to user's profile
7. To evaluate:
  - A. For each user:
    - a. For each topic:
      - i. Calculate precision@N
    - b. Average precision across topic
  - B. Average precision across user
  - C. Calculate a baseline average precision (which is % of songs that user would have liked if all songs in test was shown to them) for comparison purpose. This is especially important as looking at precision without a baseline can be misleading (e.g. a user actually likes all the songs in the topic will result in a precision of 1 regardless of quality of recommender)

-----

**IMPORTANT NOTE: While the overall logic is outlined above, the way it is implemented in code makes Q2.1, Q2.2 and Q3 coupled (i.e. I implemented all the logic in a `SongRecommender` class). This is a conscious design choice that in my opinion improves code readability and makes more sense. Results are however presented/discussed in the respective sections**

-----

## Training topic classifier

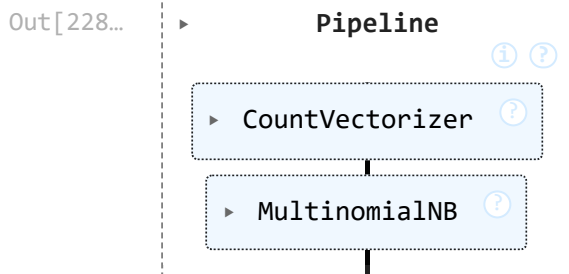
```
In [533... df = pd.read_csv('dataset.tsv', sep='\t')
train_df = df[:750]
test_df = df[750:1000]
```

```
In [534... train_df = preprocess_data(train_df)
test_df = preprocess_data(test_df)
```

```
In [535... X_train = train_df['document']
y_train = train_df['topic']
X_test = test_df['document']
y_test = test_df['topic']
```

```
In [228... final_mnb_pipeline = Pipeline([
    ('vect', CountVectorizer(max_features=500)),
    ('clf', MultinomialNB())
])

# Train MNB model
final_mnb_pipeline.fit(X_train, y_train)
```



## Get predicted topic on data

```
In [536... train_df['predicted_topic'] = final_mnb_pipeline.predict(X_train)
test_df['predicted_topic'] = final_mnb_pipeline.predict(X_test)
```

## SongRecommender class definition

```
In [125... ## SongRecommender class
from scipy.sparse import csr_matrix, vstack
from sklearn.metrics.pairwise import cosine_similarity
from sklearn.metrics.pairwise import euclidean_distances

class SongRecommender:
    def __init__(self, topics):
        self.topics = topics
        self.topics_tfidf_vectorizers = {} # Tfidf vectorizer per topic
        self.topics_train_df = {} # Original dataframe for each song in training
        self.topics_test_df = {} # Similar as above but for test
        self.topics_test_df_vectors = {} # TFidf vectors of songs per topic
        self.user_topic_profiles = {} # User profiles tfidf values (e.g. {"user1":
        self.user_topic_keywords = {} # User keywords dictionary (e.g. {"user1":

    def train_topic_tfidf_vectorizers(self, train_df):
        # Train a tfidf vectorizer per topic
        for topic in self.topics:
            df = train_df[train_df['predicted_topic'] == topic].reset_index(drop
            vectorizer = TfidfVectorizer()
```

```

        vectorizer.fit(df['document'])

        self.topics_tfidf_vectorizers[topic] = vectorizer
        self.topics_train_df[topic] = df

def build_user_profile(self, user_keywords: dict, user_id: str):
    user_profile_vectors = {}
    user_topic_keywords = {}

    for topic in user_keywords:
        vectorizer = self.topics_tfidf_vectorizers[topic]
        df = self.topics_train_df[topic]

        # Grab user keywords
        topic_keywords = user_keywords.get(topic)

        # Preprocess keywords just like how we preprocessed song lyrics
        clean_topic_keywords = [preprocess_text(x) for x in topic_keywords]

        # Append this to ensure better match rates (+ dedupe)
        topic_keywords = sorted(list(set(topic_keywords + clean_topic_keywords)))

        # Look for songs that contains at least one topic keyword
        liked_songs_document = df[df['document'].str.contains('|'.join(topic_keywords))]

        # Logging purpose
        num_liked = len(liked_songs_document)
        total_num_songs = len(df)
        print(f"Matched {num_liked} ({round(num_liked*100/total_num_songs, 2)}%)")

        # Concatenate this to make a "user-topic level document"
        combined_text = ' '.join(liked_songs_document['document'])

        # Transform using vectorizer and store it
        user_profile_vectors[topic] = vectorizer.transform([combined_text])

        # Save user keywords
        user_topic_keywords[topic] = topic_keywords

    self.user_topic_profiles[user_id] = user_profile_vectors
    self.user_topic_keywords[user_id] = user_topic_keywords

def print_top_m_profile_words(self, user_id, m=20):
    print(f"    User profile for {user_id}")
    print("-----*****-----")
    for topic in self.user_topic_profiles[user_id]:
        # Grab user-topic tfidf vector
        vec = self.user_topic_profiles[user_id][topic].toarray().flatten()

        # Grab column names from the vectorizer
        vocab = self.topics_tfidf_vectorizers[topic].get_feature_names_out()

        # Sort descendingly by tfidf values
        top_indices = np.argsort(vec)[::-1][:m]

        result = [(vocab[i], vec[i]) for i in top_indices]

        # Printing out result
        print(f"Topic: {topic}")
        print(f"User Keywords: {self.user_topic_keywords[user_id][topic]}")

```

```

        print(f"Top {m} words in user's profile ranked by tfidf values")
        for word, score in result:
            print(f"    {word}: {round(score,4)}")
        print("")

#####
##### Used for Q2.2 #####
#####

def vectorize_test_df(self, test_df):
    # Turn test set into tfidf vectors
    for topic in self.topics:
        df = test_df[test_df['predicted_topic'] == topic].reset_index(drop=True)
        vectorizer = self.topics_tfidf_vectorizers[topic]

        # Vectorize
        df_tfidf_vecs = vectorizer.transform(df['document'])

        self.topics_test_df[topic] = df
        self.topics_test_df_vectors[topic] = df_tfidf_vecs

def recommend_for_user(self, user_id, distance_fn="cosine_similarity", top_n=10):
    precisions = []
    baseline_precisions = []
    user_topic_profiles = self.user_topic_profiles[user_id]
    user_topic_keywords = self.user_topic_keywords[user_id]

    for topic, user_keywords in user_topic_keywords.items():
        # Get user profile vector, song matrix and song data
        user_vector = user_topic_profiles.get(topic).toarray()
        song_matrix = self.topics_test_df_vectors.get(topic).toarray()
        song_df = self.topics_test_df.get(topic)

        # Get top m words from user profile vector by tfidf values
        top_indices = user_vector.flatten().argsort()[::-1]
        if top_m_words:
            top_indices = top_indices[:top_m_words]

        user_vector = user_vector[:, top_indices]
        song_matrix = song_matrix[:, top_indices]

        # Compute distance to each of the songs
        if distance_fn == "euclidean_distances":
            dist_matrix = euclidean_distances(user_vector, song_matrix).flatten()
            # Get the song indices (ranked ascendingly - lower dist = better)
            top_song_indices = np.argsort(dist_matrix)[::-1][:top_n]
        else:
            dist_matrix = cosine_similarity(user_vector, song_matrix).flatten()
            # Get the song indices (ranked descendingly)
            top_song_indices = np.argsort(dist_matrix)[::-1][:top_n]

        recommended_df = song_df.iloc[top_song_indices].reset_index(drop=True)
        recommended_df['liked'] = recommended_df['document'].str.contains('|'.join(user_keywords))

        # Calculate baseline precision (i.e. randomly selected a song to use)
        test_df = self.topics_test_df[topic]
        baseline_num_liked_songs = sum(test_df['document'].str.contains('|'.join(user_keywords)))
        baseline_num_songs = len(test_df)

```

```

        # print out recommendation
        if print_recs:
            print(f"Topic: {topic}")
            print(f"User keywords: {user_keywords}")
            for idx, row in recommended_df.iterrows():
                print(f"Top {idx + 1}:{row['track_name']} by {row['artist_name']}")

    # Calculate Precision@K
    precision = sum(recommended_df['liked']) / len(recommended_df)
    baseline_precision = round(baseline_num_liked_songs / baseline_num_songs)
    if print_precision:
        print(f"Precision: {precision} (Baseline: {baseline_precision})")
        print("-----")
    precisions.append(precision)
    baseline_precisions.append(baseline_precision)

avg_precision = sum(precisions) / len(precisions)
avg_baseline_precision = sum(baseline_precisions) / len(baseline_precisions)

if print_precision:
    print(f"Avg precision: {avg_precision} (Baseline: {avg_baseline_precision})")

return avg_precision

#####
##### Used for Q3 #####
#####
def build_user_profile_with_songnames(self, songnames, user_id):
    # This is a copy paste of <build_user_profile> with slight modifications
    user_profile_vectors = {}
    user_topic_keywords = {}

    for topic in self.topics:
        vectorizer = self.topics_tfidf_vectorizers[topic]
        df = self.topics_train_df[topic]

        # We don't use keywords here
        topic_keywords = []

        # Look for songs that contains at least one topic keyword
        liked_songs_document = df[df.track_name.isin(songnames)]

        # Logging purpose
        num_liked = len(liked_songs_document)
        total_num_songs = len(df)
        print(f"Matched {num_liked} ({round(num_liked*100/total_num_songs, 2)}%)")

        # Concatenate this to make a "user-topic level document"
        combined_text = ' '.join(liked_songs_document['document'])

        if num_liked:
            # Transform using vectorizer and store it
            user_profile_vectors[topic] = vectorizer.transform([combined_text])

            # Save user keywords
            user_topic_keywords[topic] = ["1"]*num_liked

    self.user_topic_profiles[user_id] = user_profile_vectors
    self.user_topic_keywords[user_id] = user_topic_keywords

```

```

def recommend_for_user_topic_agnostic(self, user_id):
    # This is a copy paste of <recommend_for_user> with slight modifications
    top_n=10
    top_m_words=2
    combined_recommended_df = pd.DataFrame()

    user_topic_profiles = self.user_topic_profiles[user_id]
    user_topic_keywords = self.user_topic_keywords[user_id]

    num_liked_per_topic = {x:len(y) for x, y in user_topic_keywords.items()}
    total_liked = sum(num_liked_per_topic.values())

    alloc = {
        x: round((y/total_liked) * top_n)
        for x, y in num_liked_per_topic.items()
    }
    remaining_N = top_n
    remaining_topics = len(user_topic_keywords)

    for topic, num_like_list in user_topic_keywords.items():
        num_like_in_topic = len(num_like_list)
        weight = num_like_in_topic / total_liked
        num_song_shown = alloc[topic]

        # Get user profile vector, song matrix and song data
        user_vector = user_topic_profiles.get(topic).toarray()
        song_matrix = self.topics_test_df_vectors.get(topic).toarray()
        song_df = self.topics_test_df.get(topic)

        # Get top m words from user profile vector by tfidf values
        top_indices = user_vector.flatten().argsort()[::-1]
        if top_m_words:
            top_indices = top_indices[:top_m_words]

        user_vector = user_vector[:, top_indices]
        song_matrix = song_matrix[:, top_indices]

        # Compute distance to each of the songs
        dist_matrix = cosine_similarity(user_vector, song_matrix).flatten()

        if remaining_topics == 1 or remaining_N == 0:
            # Last topic (we need to make sure we use up all allocation)
            num_song_shown = remaining_N
            top_song_indices = np.argsort(dist_matrix)[::-1][:num_song_shown]
            top_values = dist_matrix[top_song_indices]

            recommended_df = song_df.iloc[top_song_indices].reset_index(drop=True)

            recommended_df["tfidf_values"] = top_values
            recommended_df["tfidf_weighted_values"] = top_values * weight

            remaining_N = remaining_N - num_song_shown
            remaining_topics = remaining_topics - 1

        combined_recommended_df = pd.concat([combined_recommended_df, recommended_df])

    # combined_recommended_df = combined_recommended_df.sort_values(
    #     by='tfidf_weighted_values',
    #     ascending=False
    # ).reset_index(drop=True)

```

```
# combined_recommended_df = combined_recommended_df[:top_n]

for idx, row in combined_recommended_df.iterrows():
    print(f"Top {idx + 1}:{row['track_name']} by {row['artist_name']} -")

return None
```

## Q2.1 Top TFIDF words for each user profile

Full output of each of the user profile can be found in the cells below.

### User1

User profile seems reasonable in each of the topic. Most user keywords appear in the top 20 with 4 out of 5 of the topics top ranked word being a keyword

### User2

Similar to User1. Interestingly in User1 and User2 emotional profile `good` turns out to be the highest ranked word despite both of them not having it as a keyword

### User3

User profile looks reasonable - keywords consistently appear in top 2 of tfidf vector

```
In [125...] song_recommender = SongRecommender(train_df["topic"].unique())
```

```
In [125...] song_recommender.train_topic_tfidf_vectorizers(train_df)
```

```
In [125...] def read_user_keywords(filepath):
    df = pd.read_csv(filepath, sep='\t')
    user_keywords = {
        row['topic']: [kw.strip().lower() for kw in row['keywords'].split(',')]
        for _, row in df.iterrows()
    }

    return user_keywords
```

```
In [124...] user1_keywords = read_user_keywords('user1.tsv')
```

```
In [124...] song_recommender.build_user_profile(user1_keywords, "user1")
```

Matched 87 (35.51 %) number of songs for dark  
 Matched 45 (24.19 %) number of songs for sadness  
 Matched 117 (64.64 %) number of songs for personal  
 Matched 48 (52.17 %) number of songs for lifestyle  
 Matched 30 (68.18 %) number of songs for emotion

```
In [124...] song_recommender.print_top_m_profile_words("user1")
```

```
User profile for user1
-----*****-----
Topic: dark
User Keywords: ['enemi', 'enemy', 'fight', 'fire', 'pain', 'storm']
Top 20 words in user's profile ranked by tfidf values
fight: 0.2833
know: 0.1713
black: 0.1588
like: 0.1574
grind: 0.1515
blood: 0.1513
stand: 0.1403
come: 0.1401
yeah: 0.1281
tell: 0.1193
gonna: 0.1176
kill: 0.1086
hand: 0.1054
dilli: 0.0961
lanki: 0.0961
good: 0.0954
caus: 0.093
follow: 0.0923
peopl: 0.091
head: 0.0909

Topic: sadness
User Keywords: ['alon', 'alone', 'cri', 'cry', 'heartbroken', 'regret', 'tear',
'tears']
Top 20 words in user's profile ranked by tfidf values
cri: 0.2993
tear: 0.2843
babi: 0.2084
break: 0.2058
woah: 0.1655
fall: 0.1572
heart: 0.1498
know: 0.1483
club: 0.1455
away: 0.139
want: 0.1329
gonna: 0.1318
feel: 0.1276
steal: 0.1187
wish: 0.1161
wanna: 0.1126
hurt: 0.1108
think: 0.1103
right: 0.1066
place: 0.1041

Topic: personal
User Keywords: ['dream', 'growth', 'ident', 'identity', 'life', 'truth']
Top 20 words in user's profile ranked by tfidf values
life: 0.4265
live: 0.2468
chang: 0.1643
world: 0.1509
know: 0.1503
yeah: 0.1392
```



dream: 0.1351  
thank: 0.1333  
wanna: 0.1309  
like: 0.124  
teach: 0.1171  
lord: 0.1155  
come: 0.112  
time: 0.1092  
beat: 0.1045  
thing: 0.1005  
think: 0.0997  
learn: 0.0986  
need: 0.0914  
go: 0.0887

Topic: lifestyle

User Keywords: ['citi', 'city', 'light', 'night', 'parti', 'party', 'rhythm']

Top 20 words in user's profile ranked by tfidf values

tonight: 0.2922  
night: 0.2844  
come: 0.212  
song: 0.2106  
closer: 0.1912  
home: 0.1893  
time: 0.1806  
sing: 0.1749  
long: 0.1725  
stranger: 0.1725  
wait: 0.1648  
wanna: 0.1452  
tire: 0.1443  
spoil: 0.1425  
right: 0.1395  
struggl: 0.1377  
yeah: 0.1272  
play: 0.1143  
mind: 0.1102  
like: 0.1094

Topic: emotion

User Keywords: ['feel', 'hug', 'kiss', 'love', 'memori', 'memory']

Top 20 words in user's profile ranked by tfidf values

good: 0.5906  
touch: 0.3345  
feel: 0.3215  
hold: 0.2029  
know: 0.1674  
morn: 0.1356  
video: 0.1269  
vision: 0.1239  
kiss: 0.1223  
loov: 0.1216  
vibe: 0.111  
feelin: 0.1096  
go: 0.1095  
want: 0.1095  
miss: 0.1068  
love: 0.1007  
luck: 0.0953  
sunris: 0.0951

lip: 0.0929  
lovin: 0.0905

## User2

```
In [124... user2_keywords = read_user_keywords('user2.tsv')  
song_recommender.build_user_profile(user2_keywords, "user2")
```

Matched 48 (25.81 %) number of songs for sadness  
Matched 28 (63.64 %) number of songs for emotion

```
In [115... song_recommender.print_top_m_profile_words("user2")
```

```

    User profile for user2
    -----*****-----
Topic: sadness
User Keywords: ['goodby', 'goodbye', 'lost', 'silenc', 'silence', 'sorrow', 'tea
r', 'tears']
Top 20 words in user's profile ranked by tfidf values
    tear: 0.2576
    break: 0.2242
    heart: 0.2196
    away: 0.2068
    cri: 0.173
    insid: 0.1578
    woah: 0.1499
    step: 0.1484
    fall: 0.1475
    know: 0.146
    babi: 0.1432
    gonna: 0.1386
    fade: 0.1365
    club: 0.1318
    hurt: 0.1291
    open: 0.1174
    like: 0.1165
    wish: 0.1132
    wanna: 0.1119
    feel: 0.1109

Topic: emotion
User Keywords: ['feel', 'feeling', 'kiss', 'memori', 'memory', 'romanc', 'romanc
e', 'touch']
Top 20 words in user's profile ranked by tfidf values
    good: 0.598
    touch: 0.3387
    feel: 0.3256
    hold: 0.2054
    know: 0.167
    video: 0.1284
    vision: 0.1254
    kiss: 0.1239
    loov: 0.1231
    morn: 0.1206
    vibe: 0.1124
    feelin: 0.111
    go: 0.1108
    miss: 0.1082
    want: 0.1079
    luck: 0.0965
    sunris: 0.0963
    lovin: 0.0917
    gimm: 0.091
    lip: 0.0909

```

## User3

```

In [118... user3_keywords = {"sadness":["die","lie","fade","break"], "lifestyle":["night"]}
song_recommender.build_user_profile(user3_keywords, "user3")

```

Matched 106 (56.99 %) number of songs for sadness  
Matched 41 (44.57 %) number of songs for lifestyle

```
In [118... song_recommender.print_top_m_profile_words("user3")
```

```
User profile for user3
-----*****-----
Topic: sadness
User Keywords: ['break', 'die', 'fade', 'lie']
Top 20 words in user's profile ranked by tfidf values
break: 0.4053
heart: 0.3067
gonna: 0.1884
away: 0.1826
like: 0.1582
think: 0.1518
leav: 0.1478
know: 0.1477
yeah: 0.1356
fall: 0.1344
insid: 0.1229
feel: 0.1143
walk: 0.1114
girl: 0.1102
hurt: 0.1088
time: 0.1047
fade: 0.1039
look: 0.0992
babi: 0.0987
hard: 0.0974

Topic: lifestyle
User Keywords: ['night']
Top 20 words in user's profile ranked by tfidf values
tonight: 0.3198
night: 0.3113
closer: 0.2093
time: 0.1921
song: 0.1896
stranger: 0.1888
wait: 0.1804
long: 0.1764
come: 0.1669
wanna: 0.1561
spoil: 0.1559
tire: 0.1541
struggl: 0.1507
right: 0.1465
home: 0.1337
play: 0.1223
yeah: 0.1221
mind: 0.1206
telephon: 0.1143
lose: 0.1115
```

## Q2.2 Recommendation and evaluation

---

## Value of N (i.e. number of recommendations shown) and how recommendation is shown

I have selected `N = 10`. This is because:

- user must have liked at least one of the songs that we have shown them
  - Looking at the liked songs rate per user (i.e. percent of songs in that predicted topic that user liked):
    - User A's lowest match rate is 24% in sadness
    - User B's lowest match rate is 25% in sadness
    - User C's lowest match rate is 57% in sadness
    - Note: All this data can be found above in the output of `song_recommender.build_user_profile(...)`
  - This means that if we used a naive recommender that just randomly picks 10 songs to users, the likelihood of any user liking no songs in the top 10 is  $(1 - 24\%)^{10}$  which is 6%. This also means that a user liking at least one song is 94% which is quite high. Considering this is the worst case scenario (I took the lowest match rate of all users and topic) and that this is the lower bound for a random recommender, this gives me confidence that our recommender will have at least one song that user will like
- this number balances getting enough feedback from user while not overwhelming users with recommendations. There's also only a max of 250 songs in our recommended universe (across all topics) so if we go any higher, we are not far away from recommending the entire list of songs which defeats the purpose of having a recommender

In my version, **recommendation will be shown per topic** (similar to spotify where they create a playlist based on "mood/genre"). User click on the playlist and will be shown a list of songs that are recommended to them.

## Evaluation metrics

Chosen metric: **Precision@10**

Other metrics considered:

- **Recall:** Considering we are making the assumption that users only like songs that both matched their interests and were shown in top N recommendation, there is no point in calculating recall (since this will just have a value of 1)
- **DCG/any variants of DCG:** While DCG is commonly used in ranking problems, it's not very applicable here as we do not have any data on relevance (i.e. the extent of user liking a song). All we have is binary data (i.e. whether user liked the song) which gives the same info as Precision essentially.

Since I will be showing 10 recommended songs per topic, to aggregate the Precision@10 score per topic, I will simply take a straight average (which is essentially macro precision @ 10). To get one metric across all users, I will also just take a straight average across the users. This does however assumes that user is equally interested about each topic and

that each user is equal. In real life we might use user's activity/song interaction as weights to these precisions instead but this data isn't available for this assignment

## Distance measures

Both `cosine similarity` and `euclidean distance` were experimented. Unsurprisingly `cosine similarity` performed significantly better regardless of `M` as `cosine similarity` works much better for sparse vectors. It also only looks at direction of the vector rather than magnitude, which is especially relevant to our use case as a user profile tfidf vector is constructed by combining multiple songs together. As a result, the average tfidf weights of a user profile is significantly higher than the average tfidf weight of a song, making `euclidean distance` a less optimal choice. Not to mention, all it takes is one keyword to appear in a song for a user to like it - number of times the keyword appears is not relevant but this distinction can't be captured by `euclidean distance` (e.g. distance between 0 and 1 is the same as distance between 1 and 2)

## Value of `M`

`M = 2` provides the best result across the board. At an overall level as `M` increases, performance decreased. This makes sense as:

1. **Higher `M` = more noise:** Since our tfidf vectors were ranked, the more tfidf dimension that you use in the matching equation, the higher the likelihood of you introducing noise to the result
2. **Curse of dimensionality:** Even if we assume that most of the features/dimensions are useful, distance measures still suffer from curse of dimensionality

## Analysis of optimal `M` value for each user

From the chart below, we can see that:

- User 1: optimal value of `M = 2`
- User 2: optimal value of `M = 3`
- User 3: optimal value of `M = 2`

There is little difference between these users. The low value of `M` comes down to the fact that most important keywords of users appear in the top 3. User 2 has slightly higher optimal `M` which we can trace back to their profile where for the topic `emotion`, the highest ranked keyword `feel` is ranked 3rd

## Conclusion

`Cosine similarity` with `M = 2` is the most effective matching algorithm overall

```
In [125... # Vectorize test df
song_recommender.vectorize_test_df(test_df)
```

```
In [121... # Distance functions to test
dist_func_dict = ["cosine_similarity", "euclidean_distances"]
```

```

# M values to test
M_values = [2, 3, 4, 5, 10, 25, 50, 100, 250, 500, None]

# Store average precisions per distance function
avg_precisions_by_method = {} # e.g. {"cosine_similarity": [avg_precision_m=5, av
# Store individual user precisions
individual_precisions_by_method = {} # e.g. {"cosine_similarity": [(user1_precision

# Loop over each distance function
for dist_func in dist_func_dict:
    avg_precisions = []
    individual_precisions = [] # List of (p1, p2, p3) tuples

    for M in M_values:
        p1 = song_recommender.recommend_for_user("user1", distance_fn=dist_func,
        p2 = song_recommender.recommend_for_user("user2", distance_fn=dist_func,
        p3 = song_recommender.recommend_for_user("user3", distance_fn=dist_func,

        avg = (p1 + p2 + p3) / 3
        avg_precisions.append(avg)
        individual_precisions.append((p1, p2, p3))

    avg_precisions_by_method[dist_func] = avg_precisions
    individual_precisions_by_method[dist_func] = individual_precisions

```

In [121...

```

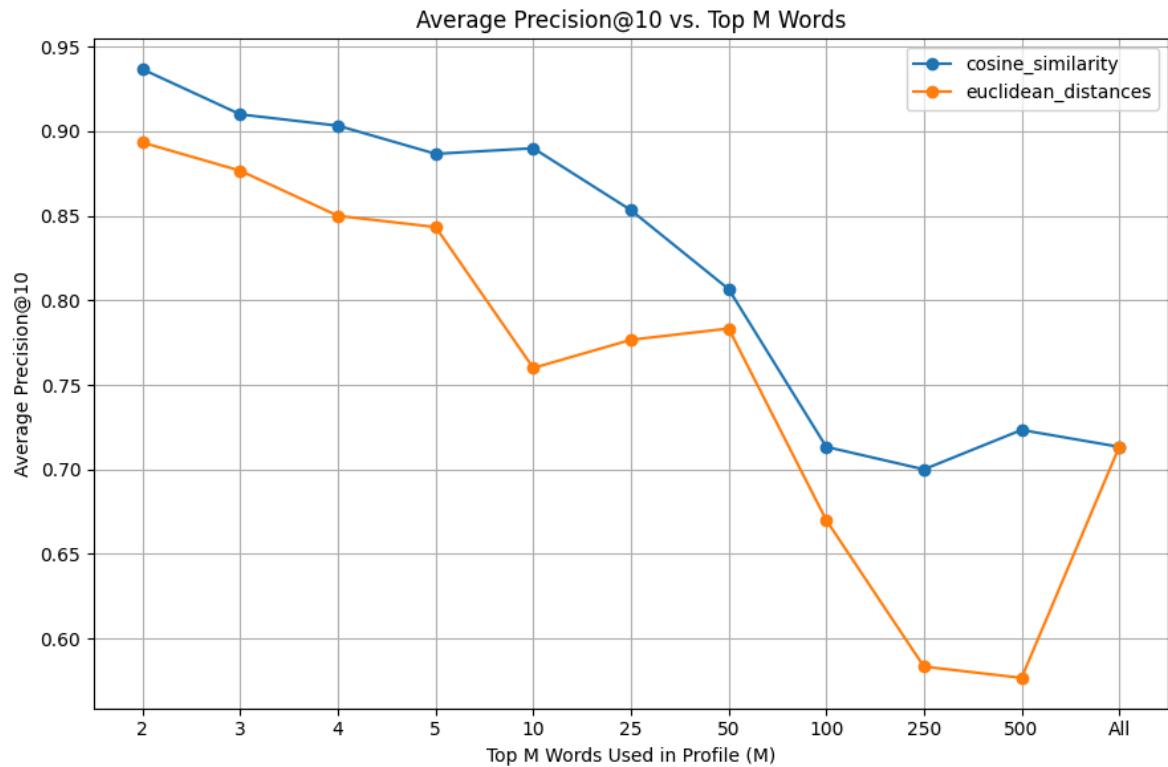
x_labels = [str(m) if m is not None else "All" for m in M_values]

plt.figure(figsize=(9, 6))

for method_name, avg_precisions in avg_precisions_by_method.items():
    plt.plot(x_labels, avg_precisions, marker='o', label=method_name)

plt.title("Average Precision@10 vs. Top M Words")
plt.xlabel("Top M Words Used in Profile (M)")
plt.ylabel("Average Precision@10")
plt.grid(True)
plt.legend()
plt.tight_layout()
plt.show()

```



In [120...

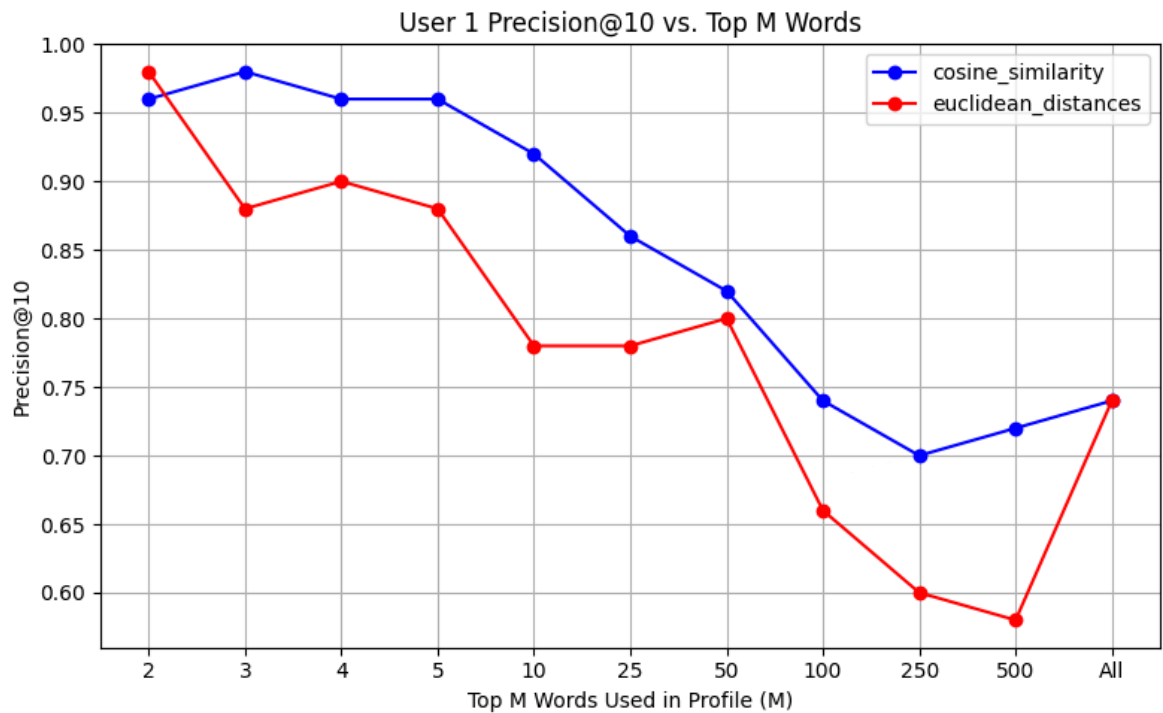
```
plt.figure(figsize=(8, 5))

colors = {
    "cosine_similarity": "blue",
    "euclidean_distances": "red"
}

for method_name, user_precisions_list in individual_precisions_by_method.items():
    user1_precisions = [t[0] for t in user_precisions_list] # Only p1 from (p1,
    plt.plot(x_labels, user1_precisions, marker='o', label=method_name, color=co

plt.title("User 1 Precision@10 vs. Top M Words")
plt.xlabel("Top M Words Used in Profile (M)")
plt.ylabel("Precision@10")
plt.grid(True)
plt.legend()
plt.tight_layout()
plt.show()
```



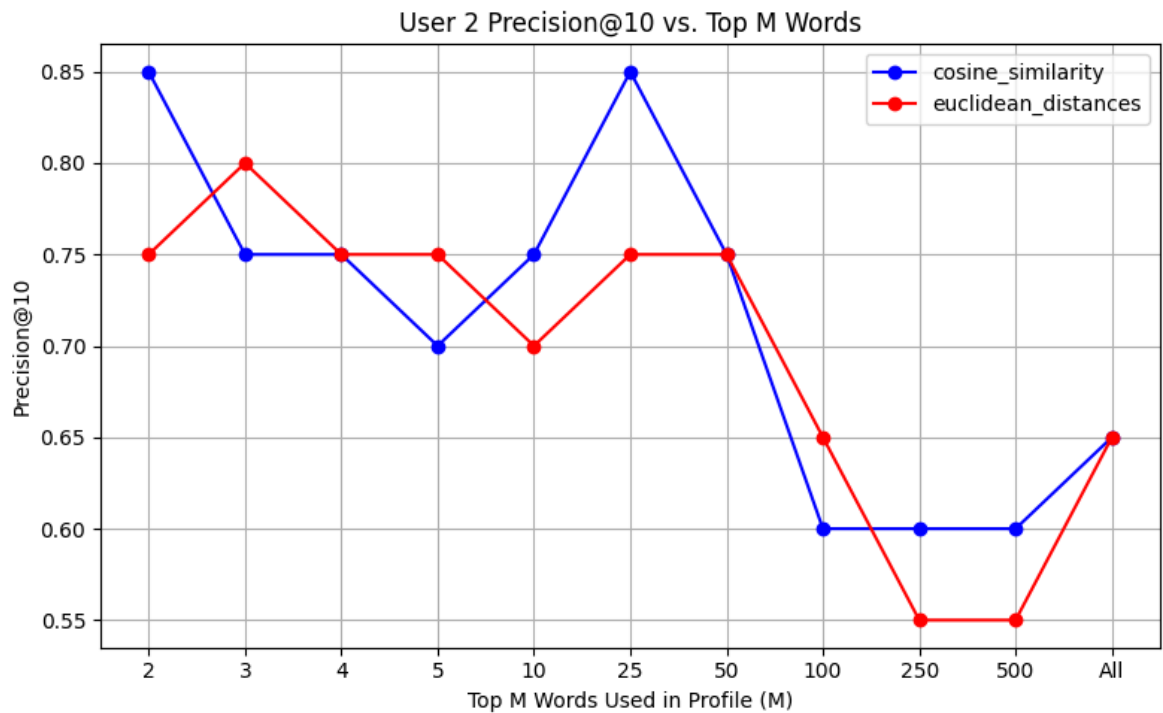


```
In [120... x_labels = [str(m) if m is not None else "All" for m in M_values]
plt.figure(figsize=(8, 5))

colors = {
    "cosine_similarity": "blue",
    "euclidean_distances": "red"
}

for method_name, user_precisions_list in individual_precisions_by_method.items():
    user1_precisions = [t[1] for t in user_precisions_list]
    plt.plot(x_labels, user1_precisions, marker='o', label=method_name, color=co

plt.title("User 2 Precision@10 vs. Top M Words")
plt.xlabel("Top M Words Used in Profile (M)")
plt.ylabel("Precision@10")
plt.grid(True)
plt.legend()
plt.tight_layout()
plt.show()
```



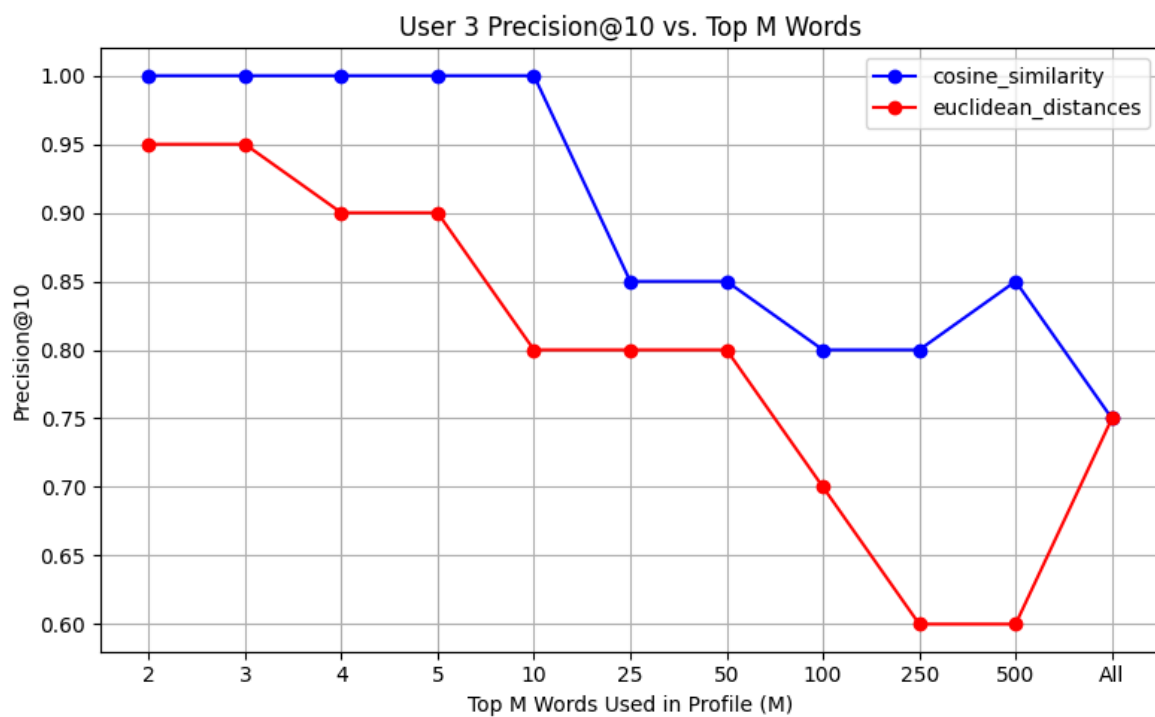
In [120...

```
x_labels = [str(m) if m is not None else "All" for m in M_values]
plt.figure(figsize=(8, 5))

colors = {
    "cosine_similarity": "blue",
    "euclidean_distances": "red"
}

for method_name, user_precisions_list in individual_precisions_by_method.items():
    user1_precisions = [t[2] for t in user_precisions_list]
    plt.plot(x_labels, user1_precisions, marker='o', label=method_name, color=colors[method_name])

plt.title("User 3 Precision@10 vs. Top M Words")
plt.xlabel("Top M Words Used in Profile (M)")
plt.ylabel("Precision@10")
plt.grid(True)
plt.legend()
plt.tight_layout()
plt.show()
```



## Individual user's recommendation

```
In [122... song_recommender.recommend_for_user("user1", top_m_words=2)
```

Topic: dark

User keywords: ['enemi', 'enemy', 'fight', 'fire', 'pain', 'storm']

Top 1:white man's world by jason\_isbell\_and\_the\_400\_unit – country (2017) 🍷

Top 2:bella ciao by klischée – jazz (2018) 🍷

Top 3:the snake by eric\_church – country (2018) 🍷

Top 4:around the corner by rick\_braun – jazz (2019) 🍷

Top 5:still by hunter\_hayes – country (2019) 🍷

Top 6:hellohello by dj\_grumble – jazz (2018) 🍷

Top 7:boy in the bubble by alec\_benjamin – pop (2018) 🍷

Top 8:no new friends (feat. sia, diplo, and labrinth) by sia – pop (2019) 🍷

Top 9:knees by bebe\_rexha – pop (2018) 🍷

Top 10:stuck by leprous – jazz (2017) 🍷

Precision: 1.0 (Baseline: 0.24)

-----

Topic: sadness

User keywords: ['alon', 'alone', 'cri', 'cry', 'heartbroken', 'regret', 'tear', 'tears']

Top 1:will you be mine by anita\_baker – jazz (2017) 🍷

Top 2:scared of the dark (feat. xxxtentacion) by lil\_wayne – pop (2018) 🍷

Top 3:[REDACTED] you by hazhe – hip hop (2018) 🍷

Top 4:cry to me by skip\_marley – reggae (2016) 🍷

Top 5:lonely girl by charles\_kelley – country (2016) 🍷

Top 6:love falls by hellyeah – rock (2016) 🍷

Top 7:i can't stop dreaming by soja – reggae (2017) 🍷

Top 8:terraformer by thank\_you\_scientist – jazz (2019) 🍷

Top 9:torn in two by breaking\_benjamin – rock (2018) 🍷

Top 10:something new by babe\_rainbow – reggae (2019) 🍷

Precision: 1.0 (Baseline: 0.27)

-----

Topic: personal

User keywords: ['dream', 'growth', 'ident', 'identity', 'life', 'truth']

Top 1:rocky road by alborosie – reggae (2016) 🍷

Top 2:superposition by daniel\_caesar – pop (2019) 🍷

Top 3:no words by cody\_jinks – country (2016) 🍷

Top 4:sit awhile by the\_band\_steele – country (2017) 🍷

Top 5:walk through this life by tedeschi\_trucks\_band – blues (2019) 🍷

Top 6:wash away by iya\_terra – reggae (2019) 🍷

Top 7:living it up by damian\_marley – reggae (2017) 🍷

Top 8:happiness by needtobreathe – rock (2016) 🍷

Top 9:take it all back by judah\_\_the\_lion – rock (2016) 🍷

Top 10:hand of god by jon\_bellion – pop (2016) 🍷

Precision: 1.0 (Baseline: 0.66)

-----

Topic: lifestyle

User keywords: ['citi', 'city', 'light', 'night', 'parti', 'party', 'rhythm']

Top 1:light up the night by jamie\_berry – jazz (2019) 🍷

Top 2:come down by anthony\_gomes – blues (2018) 🍷

Top 3:baroness by wolfmother – blues (2016) 🍷

Top 4:it's only right by wallows – rock (2018) 🍷

Top 5:rethymno by digitalluc – jazz (2019) 🍷

Top 6:21 summer by brothers\_osborne – country (2016) 🍷

Top 7:paranormal by alice\_cooper – blues (2017) 🍷

Top 8:all you, all night, all summer by adam\_hambrick – country (2019) 🍷

Top 9:would you mind by prettymuch – pop (2017) 🍷

Top 10:summer depression by girl\_in\_red – pop (2018) 🍷

Precision: 1.0 (Baseline: 0.45)

-----

Topic: emotion

User keywords: ['feel', 'hug', 'kiss', 'love', 'memori', 'memory']

Top 1:i did something bad by taylor\_swift – pop (2017) 🍷

Top 2:false alarm by the\_weeknd – pop (2016) 🍷  
 Top 3:wasteman by jada\_kingdom – reggae (2018) 🍷  
 Top 4:do you really by oscar\_jerome – jazz (2018) 🍷  
 Top 5:horsefly by dirty\_heads – reggae (2019) 🍷  
 Top 6:once in a while by timeflies – pop (2016) 🍷  
 Top 7:got it good by justin\_moore – country (2016) 🍷  
 Top 8:(your love keeps lifting me) higher and higher by elvin\_bishop – blues (2018) 🍷  
 Top 9:close enough by brett\_young – country (2017) 🍷  
 Top 10:stars (live at montreux) by nina\_simone – blues (2017) 🍷  
 Precision: 0.8 (Baseline: 0.71)  
 -----  
 Avg precision: 0.96 (Baseline: 0.466)

Out[122... 0.96

In [122... song\_recommender.recommend\_for\_user("user2", top\_m\_words=2)

Topic: sadness  
 User keywords: ['goodby', 'goodbye', 'lost', 'silenc', 'silence', 'sorrow', 'tear', 'tears']  
 Top 1:remind me to forget by kygo – pop (2017) 🍷  
 Top 2:torn in two by breaking\_benjamin – rock (2018) 🍷  
 Top 3:will you be mine by anita\_baker – jazz (2017) 🍷  
 Top 4:something new by babe\_rainbow – reggae (2019) 🍷  
 Top 5:the greatest by six60 – reggae (2019) 🍷  
 Top 6:home by the\_movement – reggae (2016) 🍷  
 Top 7:terraformer by thank\_you\_scientist – jazz (2019) 🍷  
 Top 8:scared of the dark (feat. xxxtentacion) by lil\_wayne – pop (2018) 🍷  
 Top 9:i can't stop dreaming by soja – reggae (2017) 🍷  
 Top 10:california by big\_\_rich – country (2017) 🍷  
 Precision: 1.0 (Baseline: 0.22)  
 -----  
 Topic: emotion  
 User keywords: ['feel', 'feeling', 'kiss', 'memori', 'memory', 'romanc', 'romance', 'touch']  
 Top 1:i did something bad by taylor\_swift – pop (2017) 🍷  
 Top 2:false alarm by the\_weeknd – pop (2016) 🍷  
 Top 3:wasteman by jada\_kingdom – reggae (2018) 🍷  
 Top 4:do you really by oscar\_jerome – jazz (2018) 🍷  
 Top 5:horsefly by dirty\_heads – reggae (2019) 🍷  
 Top 6:once in a while by timeflies – pop (2016) 🍷  
 Top 7:got it good by justin\_moore – country (2016) 🍷  
 Top 8:(your love keeps lifting me) higher and higher by elvin\_bishop – blues (2018) 🍷  
 Top 9:close enough by brett\_young – country (2017) 🍷  
 Top 10:stars (live at montreux) by nina\_simone – blues (2017) 🍷  
 Precision: 0.7 (Baseline: 0.65)  
 -----  
 Avg precision: 0.85 (Baseline: 0.435)

Out[122... 0.85

In [122... song\_recommender.recommend\_for\_user("user3", top\_m\_words=2)

```

Topic: sadness
User keywords: ['break', 'die', 'fade', 'lie']
Top 1:stay with me by ayokay – pop (2018) 👍
Top 2:will you be mine by anita_baker – jazz (2017) 👍
Top 3:rewrite the stars by zac_efron – pop (2017) 👍
Top 4:the greatest by six60 – reggae (2019) 👍
Top 5:something new by babe_rainbow – reggae (2019) 👍
Top 6:sarah, surrender by gov_t_mule – blues (2017) 👍
Top 7:hearts of habit by black_pistol_fire – blues (2017) 👍
Top 8:home by the_movement – reggae (2016) 👍
Top 9:little one by highly_suspect – rock (2016) 👍
Top 10:torn in two by breaking_benjamin – rock (2018) 👍
Precision: 1.0 (Baseline: 0.59)
-----
Topic: lifestyle
User keywords: ['night', 'parti', 'party']
Top 1:light up the night by jamie_berry – jazz (2019) 👍
Top 2:come down by anthony_gomes – blues (2018) 👍
Top 3:baroness by wolfmother – blues (2016) 👍
Top 4:it's only right by wallows – rock (2018) 👍
Top 5:rethymno by digitalluc – jazz (2019) 👍
Top 6:21 summer by brothers_osborne – country (2016) 👍
Top 7:paranormal by alice_cooper – blues (2017) 👍
Top 8:all you, all night, all summer by adam_hambrick – country (2019) 👍
Top 9:would you mind by prettymuch – pop (2017) 👍
Top 10:summer depression by girl_in_red – pop (2018) 👍
Precision: 1.0 (Baseline: 0.39)
-----
Avg precision: 1.0 (Baseline: 0.49)

```

Out[122... 1.0

## PART THREE

### Q3 User testing

---

#### Testing procedure

1. Test user was shown 10 randomly chosen songs in week 1, 2, 3.
2. Test user listened to all 30 songs and indicated the ones they enjoyed listening to
3. The songs which user liked was concatenated to build a user profile just like in Part 2
4. 10 songs from week 4 were then recommended to user using the recommender
  - A. My song recommender shows 10 songs per topic by default.
  - B. To achieve 10 songs in total, I first calculate the proportion of liked songs in each topic (e.g. 5 out of 10 songs user liked is in `emotion` -> weight of 0.5 for `emotion` songs)
  - C. I then multiplied these weights by the total number of recommendations (10) to determine how many songs to select from each topic (e.g. 5 songs from emotion)
  - D. Within each topic, I selected the top songs based on cosine similarity to the user profile, then merged them to form the final recommendation
5. User listens to all 10 songs to determine which ones they like

## 6. Gather feedback

### Results

	Songs Liked	Songs Shown	Precision
Random (W1–3)	7	30	23%
Recommended (W4)	6	10	60%

For songs that were randomly selected and shown to test user during week 1 to 3, user liked **23%** of them (precision)

During week 4, test user however liked **60%** of the songs (precision) that were recommended to them, signalling that our song recommender is indeed learning user's preference

This is however significantly lower than the precision we saw in part 2 where average precision was **94%**. This is due to the fact that in Part 2 we made the assumption that user's music preference can indeed be deterministically captured by keywords. This is far from reality as user's music preference is normally more nuanced. Information like rhythm, melody, seasonality are some of the important dimensions that aren't captured here.

### Feedback

While user enjoyed the experience, one of the key feedback is that user didn't like the binary response method. There are songs that they absolutely love and would love to hear more of (e.g. natural by imagine dragons) while there are some songs that they only slightly prefer. A scale response would have been more appropriate

They didn't enjoy country music but seemed like in the recommendation there were still country music.

They also found the song universe quite niche - they have only previously heard 1-2 songs from all of the songs recommended. A broader song universe would have been fantastic

### Conclusion

Overall, while the system demonstrated promising recommendation capabilities, its quality is still far from sufficient for commercial use. This highlights the inherent limitations of keyword-only recommender systems.

=

In [117...

```
def randomly_select_n_songs(df, n=10):
    df = df.sample(n=n, random_state=42).reset_index(drop=True)
    for idx, row in df.iterrows():
        print(f"Top {idx + 1} :{row['track_name']} by {row['artist_name']} - {ro
```

```
In [117... # WEEK 1 recommendation
randomly_select_n_songs(train_df[:250])
```

```
Top 1 :vivo hip hop (live) by skool_77 – hip hop (2017)
Top 2 :trap door by rebelution – reggae (2018)
Top 3 :outrunning karma by alec_benjamin – pop (2018)
Top 4 :we are come to outlive our brains by phish – blues (2018)
Top 5 :shout sister shout by madeleine_peyroux – jazz (2016)
Top 6 :what i could do by janiva_magness – blues (2018)
Top 7 :if you met me first by eric_ethridge – country (2018)
Top 8 :natural by imagine_dragons – rock (2018)
Top 9 :never land by eli_young_band – country (2017)
Top 10 :john the revelator by larkin_poe – blues (2017)
```

```
In [117... # WEEK 2 recommendation
randomly_select_n_songs(train_df[250:500])
```

```
Top 1 :stupid deep by jon_bellion – rock (2018)
Top 2 :black tar by the_kills – blues (2016)
Top 3 :the good doctor by haken – jazz (2018)
Top 4 :american tune by allen_toussaint – blues (2016)
Top 5 :i have this hope by tenth_avenue_north – rock (2016)
Top 6 :heaven falls / fall on me by surfaces – pop (2018)
Top 7 :devils got you beat by blues_saraceno – blues (2019)
Top 8 :this is it by the_wood_brothers – blues (2018)
Top 9 :tesselation by mild_high_club – rock (2016)
Top 10 :snake charmer by parov_stelar – jazz (2019)
```

```
In [117... # WEEK 3 recommendation
randomly_select_n_songs(train_df[500:750])
```

```
Top 1 :unleashed by killswitch_engage – rock (2019)
Top 2 :buy my own drinks by runaway_june – pop (2019)
Top 3 :cascade by the_dear_hunter – jazz (2016)
Top 4 :i only lie when i love you by royal_blood – blues (2017)
Top 5 :next to me by overtime – country (2016)
Top 6 :right left wrong by three_days_grace – rock (2018)
Top 7 :seventeen by peach_pit – rock (2018)
Top 8 :the dark horse always wins by blues_saraceno – blues (2018)
Top 9 :you're worthy of it all by shane__shane – rock (2017)
Top 10 :all i c is u & me by death_from_above_1979 – blues (2017)
```

```
In [122... # User Liked
user_liked_songs = [
    "trap door",
    "shout sister shout",
    "natural",
    "never land",
    "black tar",
    "snake charmer",
    "next to me"
]

baseline_precision = len(user_liked_songs) / 30
print(f"Baseline precision: {round(baseline_precision,2)}")
```

Baseline precision: 0.23

```
In [124... # Building user profile based on songnames Liked
song_recommender.build_user_profile_with_songnames(user_liked_songs, "user123")
```



Matched 5 (2.04 %) number of songs for dark  
Matched 1 (1.09 %) number of songs for lifestyle  
Matched 1 (0.54 %) number of songs for sadness  
Matched 0 (0.0 %) number of songs for emotion  
Matched 0 (0.0 %) number of songs for personal

```
In [117... # Building user profile based on songnames Liked
song_recommender.build_user_profile_with_songnames(user_liked_songs, "user123")
```

Matched 5 (2.04 %) number of songs for dark  
Matched 1 (1.09 %) number of songs for lifestyle  
Matched 1 (0.54 %) number of songs for sadness  
Matched 0 (0.0 %) number of songs for emotion  
Matched 0 (0.0 %) number of songs for personal

```
In [117... # Recommending user songs based on their profile
song_recommender.recommend_for_user_topic_agnostic("user123")
```

Top 1:shout bamalama by the\_detroit\_cobras – blues (2016)  
Top 2:donner bell by deca – jazz (2019)  
Top 3:hellohello by dj\_grumble – jazz (2018)  
Top 4:the mystic by adam\_jensen – rock (2016)  
Top 5:the snake by eric\_church – country (2018)  
Top 6:around the corner by rick\_braun – jazz (2019)  
Top 7:knees by bebe\_rexha – pop (2018)  
Top 8:love is alive by louis\_the\_child – pop (2017)  
Top 9:stigmata by grandson – rock (2019)  
Top 10:black by dierks\_bentley – country (2016)

```
In [122... user_liked_recommended_songs = [
    "shout bamalama",
    "donner bell",
    "hellohello",
    "the mystic",
    "the snake",
    "knees"
]

precision = len(user_liked_recommended_songs) / 10
print(f"Precision: {round(precision,2)} (Baseline: {round(baseline_precision,2)})
```

Precision: 0.6 (Baseline: 0.23)