



BOOK RECOMMENDER

ANJALI SEBASTIAN

INTRODUCTION



- ◆ Book worm
- ◆ Analyze & Discover patterns
- ◆ Large amount of copyright free literature
- ◆ Recommend a similar free book from a excerpt

DATA

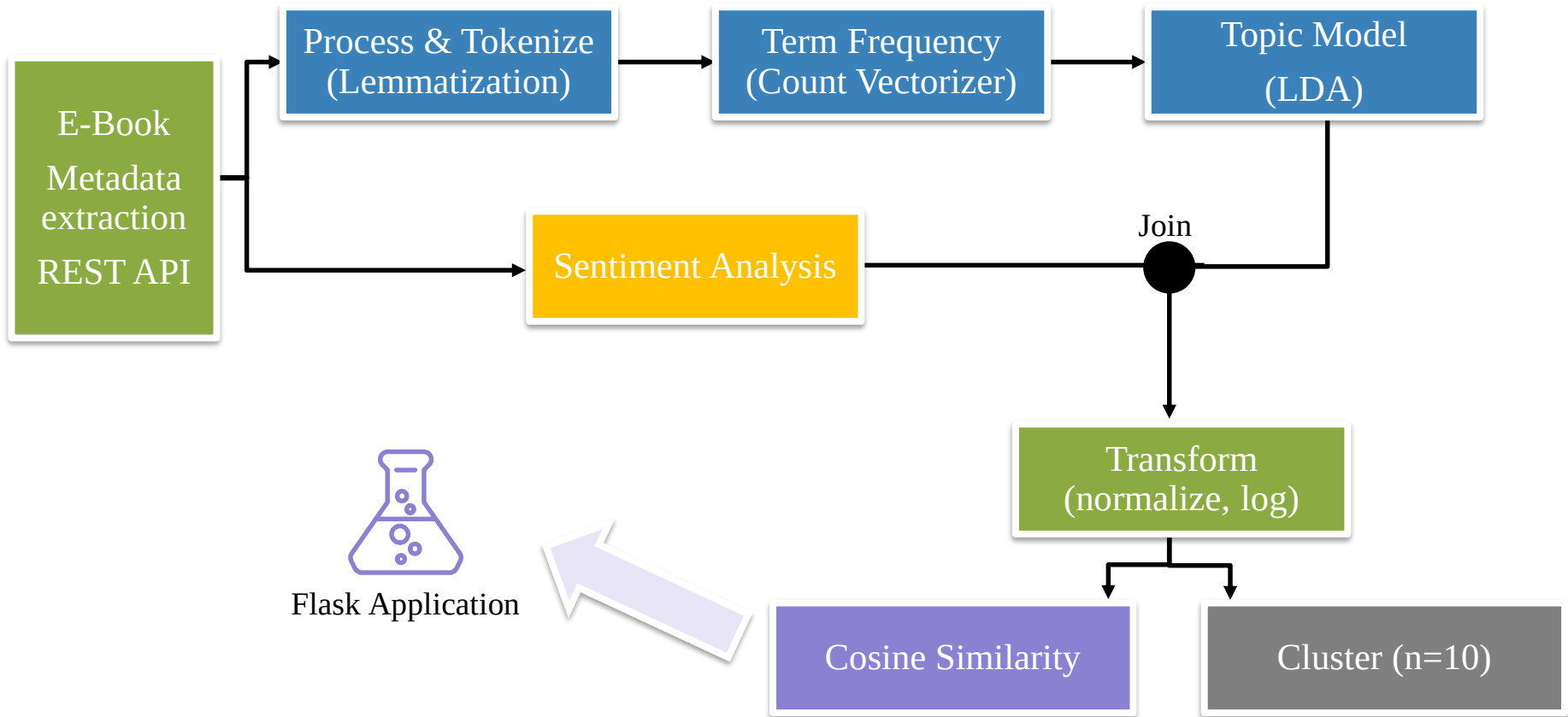


3000 full e-books from
Project Gutenberg - .txt file
format

150 authors

Enhanced dataset of
30,000+ books



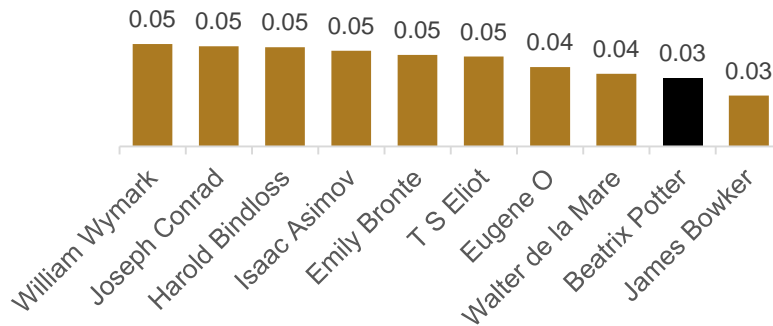
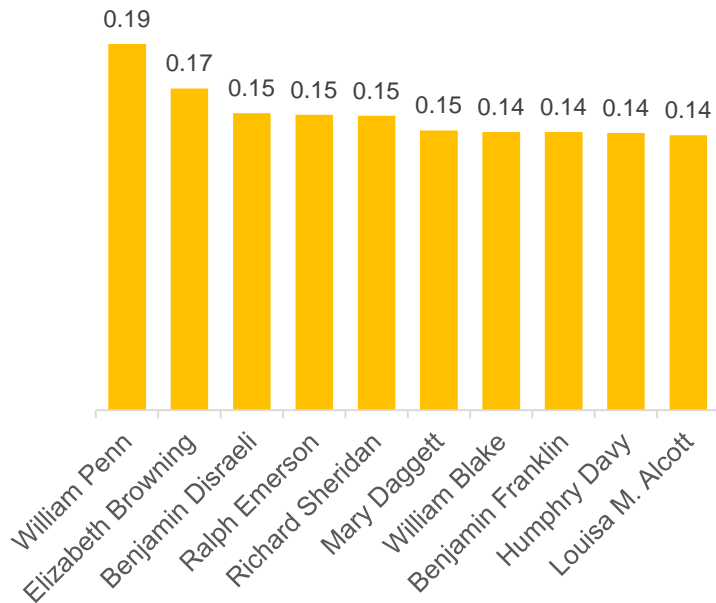


DESIGN





SENTIMENT ANALYSIS - POLARITY



PETER RABBIT THE DARK SIDE



When Benjamin Bunny grew up, he
married his Cousin Flopsy.

As there was not always quite
enough to eat,—Benjamin used to
borrow cabbages from Flopsy's
brother, Peter Rabbit, who kept a
nursery garden.

Sometimes Peter Rabbit had no
cabbages to spare.



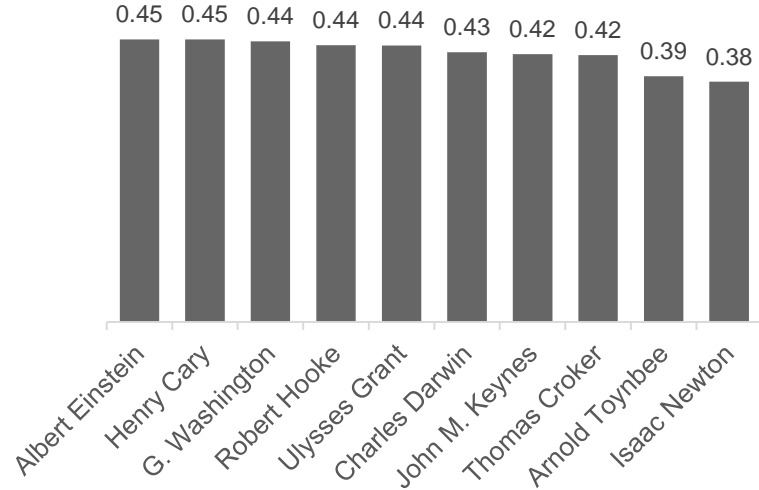
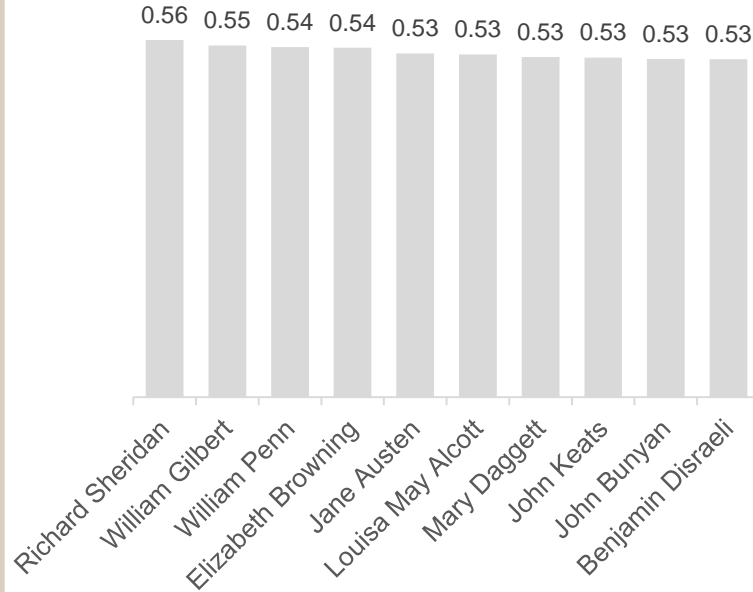
SENTIMENT ANALYSIS - SUBJECTIVITY



Abstract



Concrete



POPULAR AUTHORS



Isaac Asimov

Agatha Christie

P G Wodehouse

SMALL SENTENCES !

< 12 words per sentence

TOPIC MODELING



Topic 19 – Religious Text

god , spirit , soul , lord ,
father , heaven , christ

Sermons, Gospel, Quaker

Charles Kingsley

William Penn

John Bunyan

Topic 10 – Kid's Books

girl , mother , boy , peter ,
don , cried

The Wonderful Wizard of
Oz

The Tale Of Benjamin
Bunny

Topic 5 - Poetry

poet , poem , art , nature ,
line

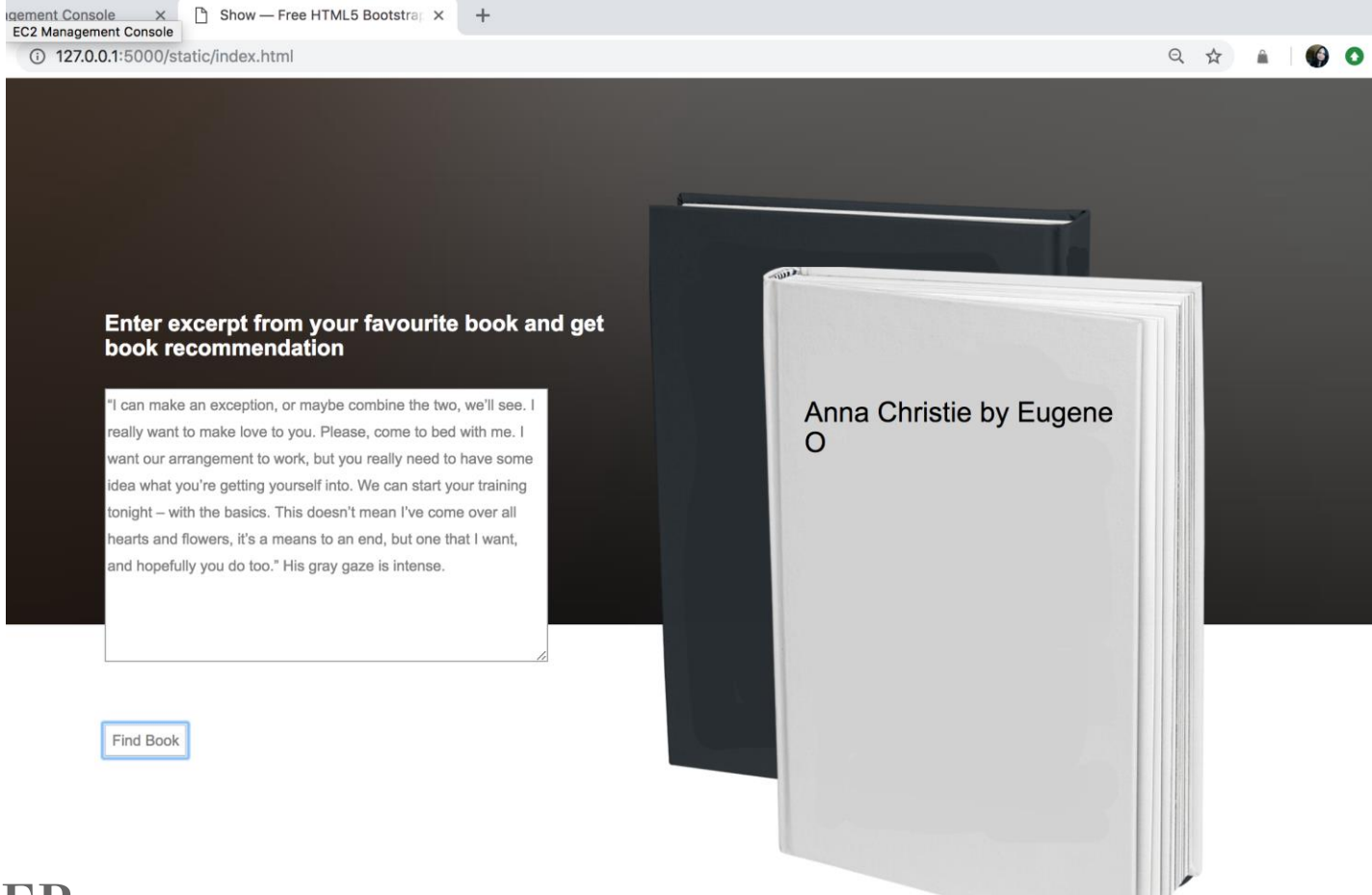
Alexander Pope

Lord Byron

P B Shelley

LDA 20 Topics

Fifty Shades of Grey – Anne Christie



BOOK RECOMMENDER



CONCLUSION & FUTURE WORK



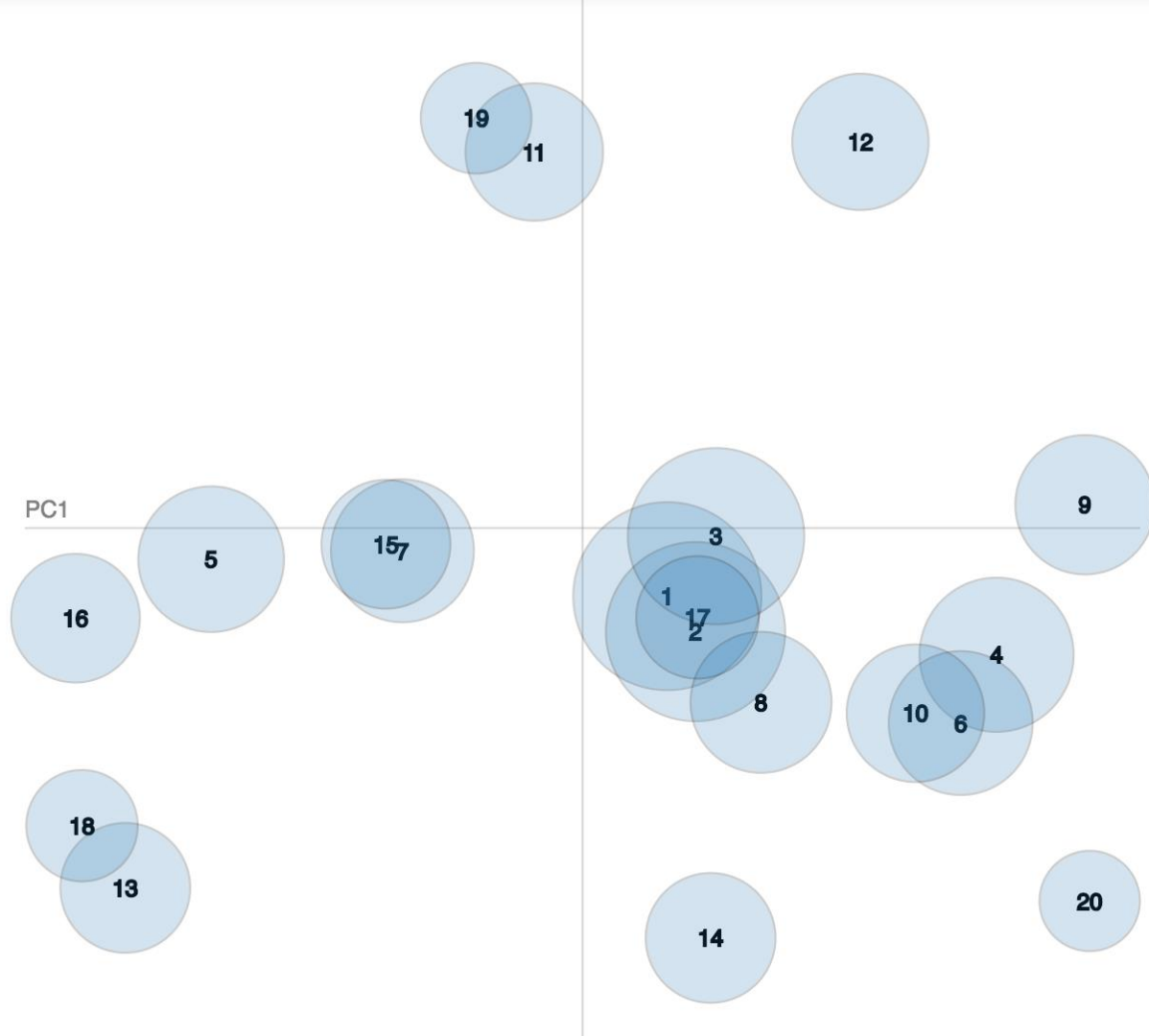
- ◆ Able to observe interesting patterns
- ◆ Reasonable Suggestions
- ◆ Recommendation for fiction vs non fiction
- ◆ Bring more context using Neural Networks
- ◆ Larger corpus
- ◆ Remember user history and adapt

50 - 100 years from now ?

THANK YOU



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CLUSTERING

