



# Book Recommender WebApp

Mitchell Brogan

# Introduction

- **Motivation**
  - Provide avid book readers with their next read
- **Objective**
  - Create a web app able to recommend books based on their descriptions
- **Result**
  - Created a web app that recommends the top 10 most relevant books when provided the name of one book

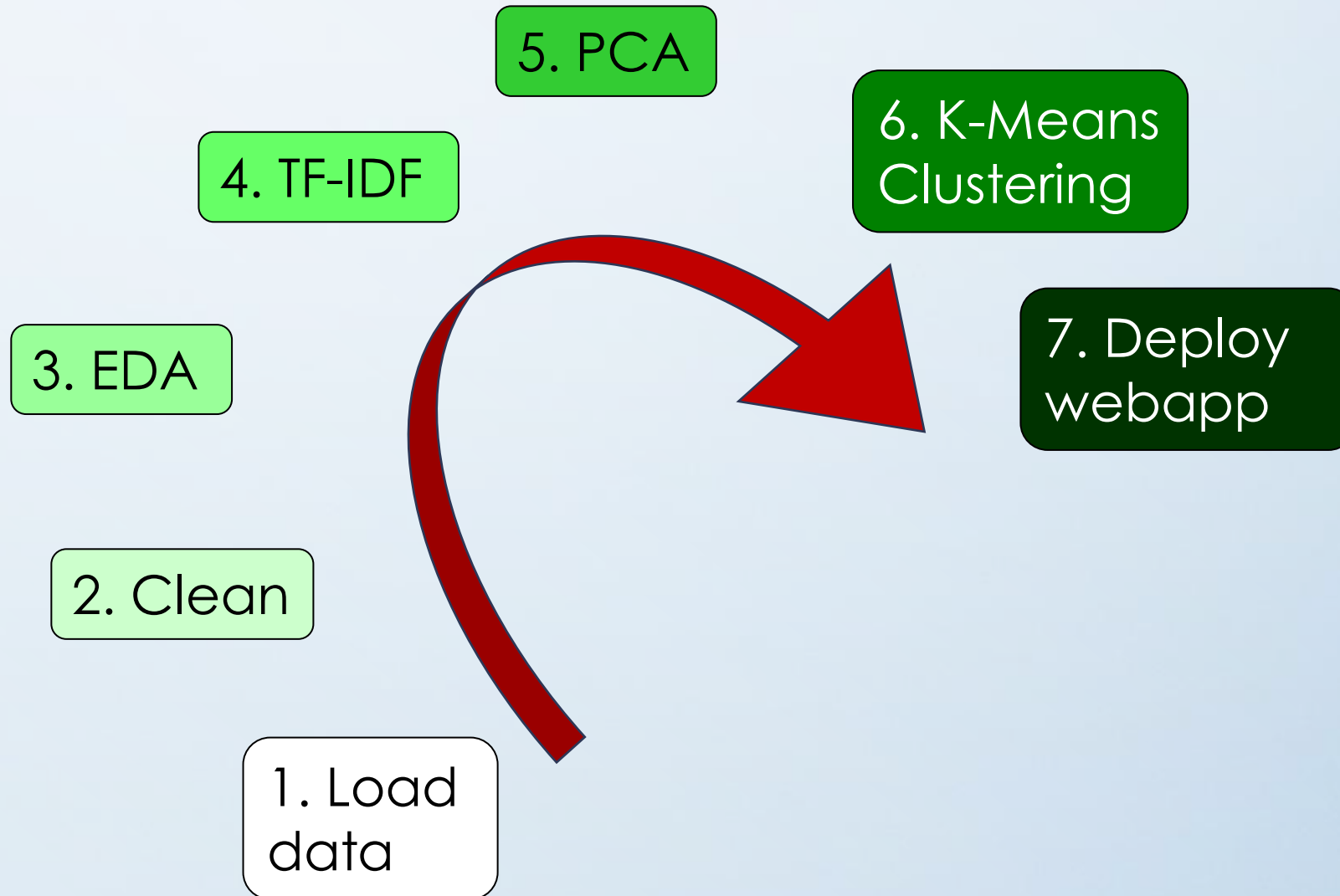
# Methodology

- **Data:**
  - 100,000 unique books and their descriptions
  - [https://www.kaggle.com/datasets/mohamedbakheta/amazon-books-reviews?select=Books\\_rating.csv](https://www.kaggle.com/datasets/mohamedbakheta/amazon-books-reviews?select=Books_rating.csv)
- **Metrics:**
  - Raw Text from Book Title and Book Description Columns

- **Tools:**

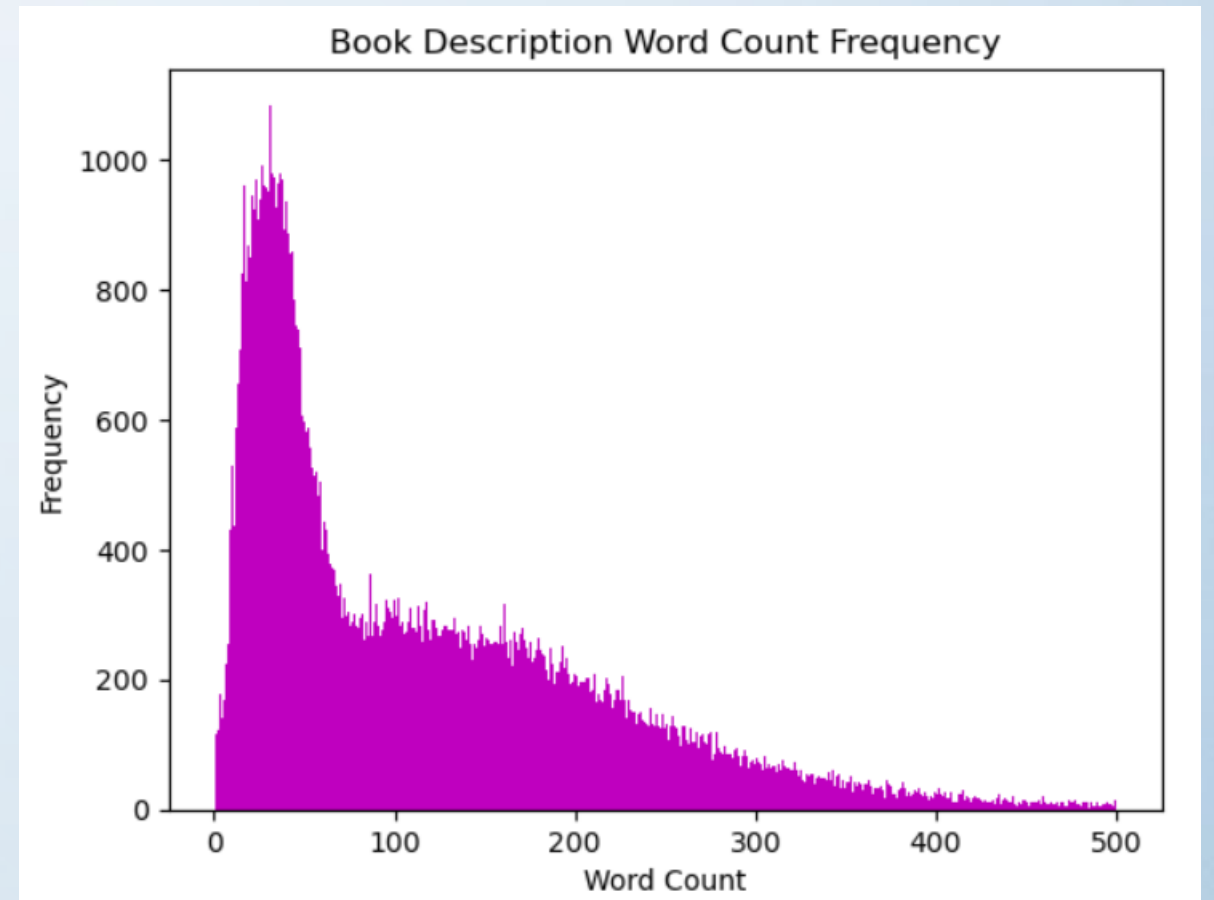


# Methodology Cont. - Pipeline



# EDA

- Most descriptions have 10's of words
- Very few descriptions have 100's of words





# Results

## Top 10 Recommended Books

Input a book and we will find the 10 most similar books:

Dr. Seuss: American Icon

### Chosen Book: Dr. Seuss: American Icon

#### Recommended Books:

Title - 1: The Liturgical Environment: What the Documents Say

Title - 2: Shallow Soil

Title - 3: Beginner's Yoruba (Hippocrene Beginner's Series)

Title - 4: Webster's Third New International Dictionary, Unabridged (CD-ROM 3.0 version)

Title - 5: THE VICTORIAN FAIRY TALE BOOK (Pantheon Fairy Tale & Folklore Library)

Title - 6: Healthy Sleep Habits, Happy Child / Your Fussy Baby

Title - 7: Piero della Francesca

Title - 8: Single White Psychopath Seeks Same

Title - 9: Necessary Secrets (Silhouette Intimate Moments #1344)

Title - 10: Murphy'S Law (Men In Blue) (Silhouette Intimate Moments)



# Conclusions

- Successfully utilized cloud computing for data processing
- Built a recommender with NLP
- Created web application



# Future Work

- Incorporate PySpark
- Refine recommender
- Add more features to the app



# Appendix

## Top 10 Recommended Books

Input a book and we will find the 10 most similar books:

.NET Security

### Chosen Book: .NET Security

#### Recommended Books:

Title - 1: A Shropshire Lad

Title - 2: A Theory of Art

Title - 3: The Secrets to Good Grades

Title - 4: Java Gently (International Computer Science Series)

Title - 5: Solid Modeling Using Solidworks 2004, a

Title - 6: Timothy Tales From Hilltop School

Title - 7: The Armadillo (Wildlife of North America)

Title - 8: Booking Hawaii Five-O : An Episode Guide and Critical History of the 1968-1980 Television Detective Series

Title - 9: Manual of Physical Medicine and Rehabilitation, 1e

Title - 10: EATING DISORDERS, OBESITY ANOREXIA NERVOSA, AND THE PERSON WITHIN