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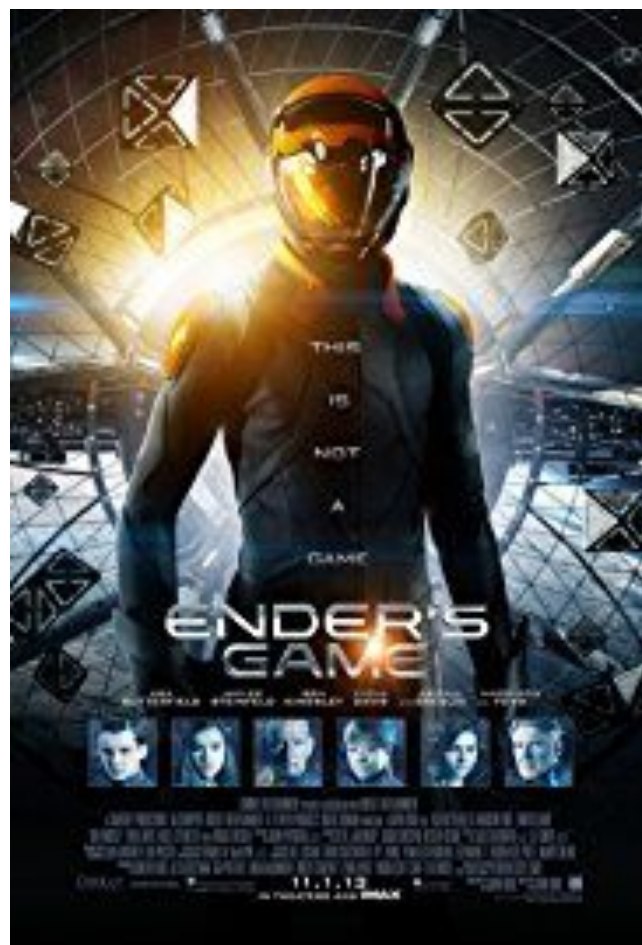
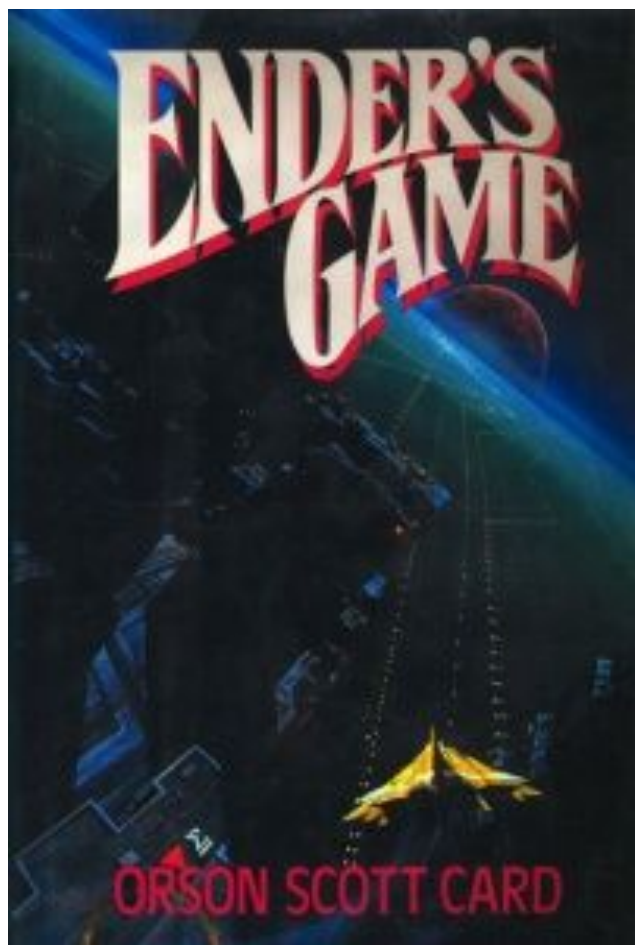
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# Write...Read...Action!!!

— Saki Kamon —

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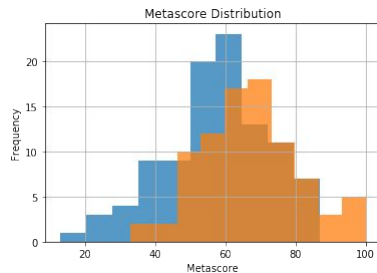
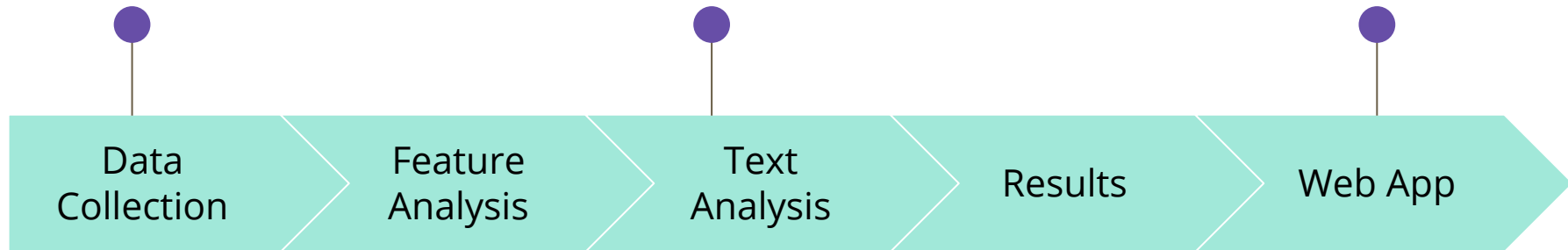
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# Objective

- Assessing the potential of book
- ~130 million books → ~19 million books categorized as “fiction”
- ~3.3 million IMDB titles → ~30K titles with tag “Based on Novel”
- Hypothesis: Content matters

goodreads



# Data Collection

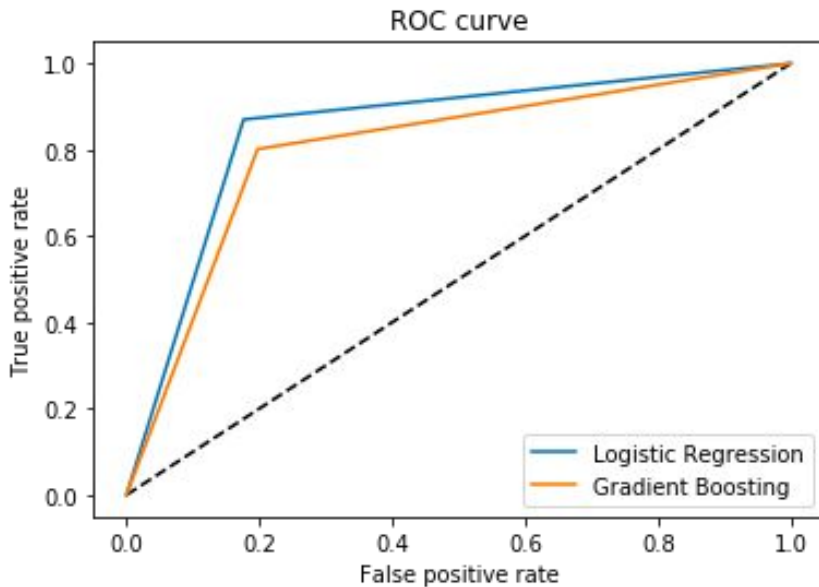
- Goodreads API and the Python library Goodreads
  - Stored in MongoDB
- Wikipedia and IMDb
  - Determine which books have cinematic adaptations

# Feature and Text Analysis

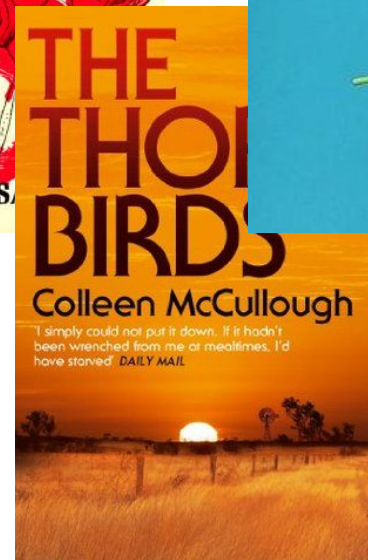
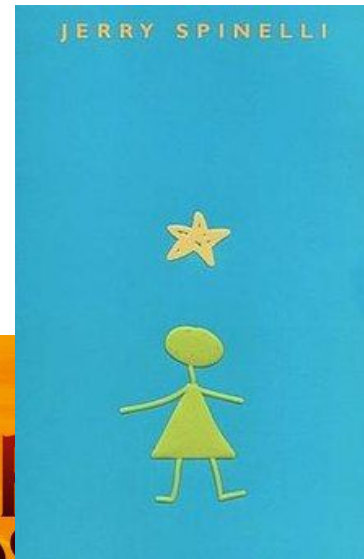
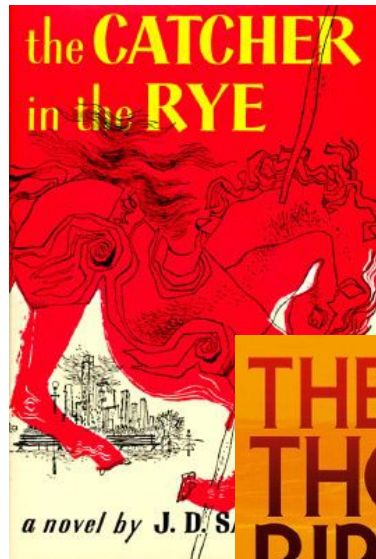
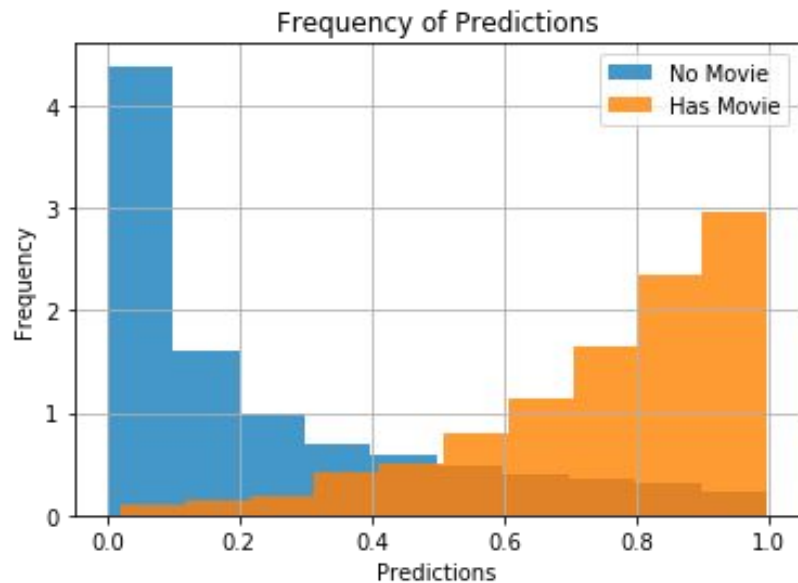
- For books
  - Year of publication
  - Number of pages
  - Average rating
  - Genre
  - Summaries
- For authors
  - Gender
  - Number of works
  - Deceased or not

# Modeling

- Natural Language Toolkit
  - Tokenize, stem, vectorize
- Scikit-learn
  - Data analysis and modeling
  - Logistic Regression
    - Precision: 25%
    - Recall: 87%



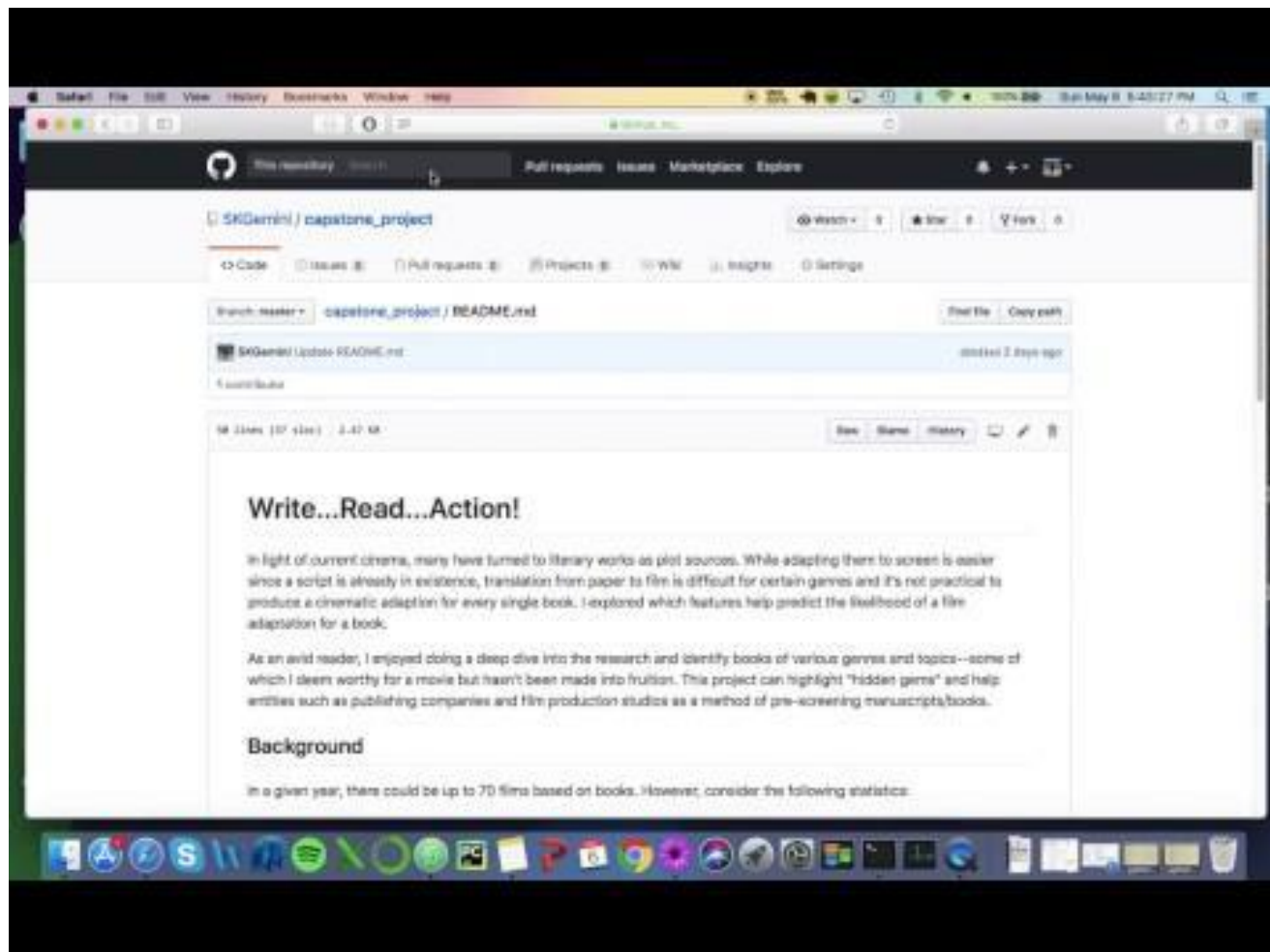
# Results





# Demo

Mock-up of website



# Future Steps

- Scale up and work on larger dataset to fine tune my model
- Go back to the project and see if my predictions correctly anticipated which books will be seen on the big screen

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