

About Me

The serious stuff:

- Economics B.A.
- Financial Modelling at Bloomberg Global Data
 - Data Science at Flatiron

The silly stuff:

- Rock climber
- Artist
- Reader



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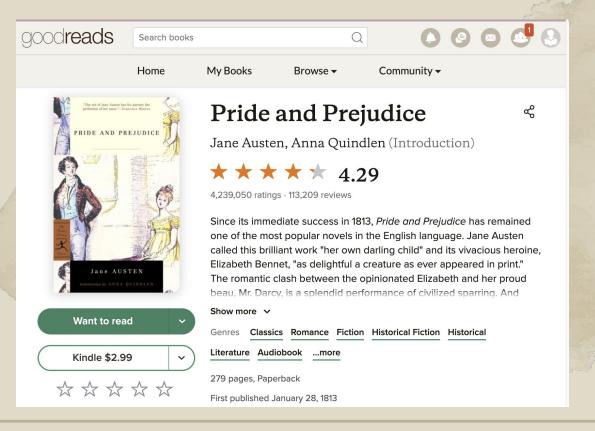
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01 Background + Research Question

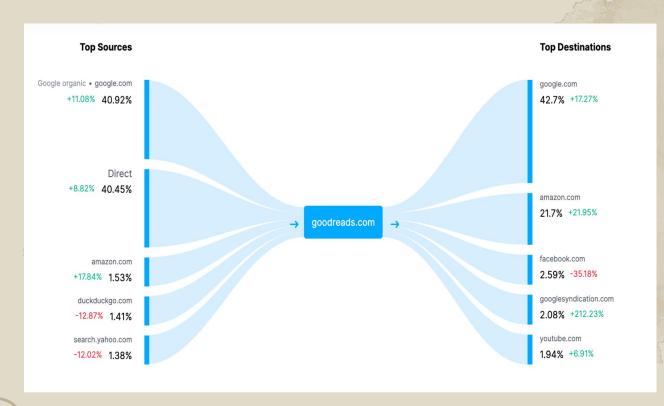


GoodReads

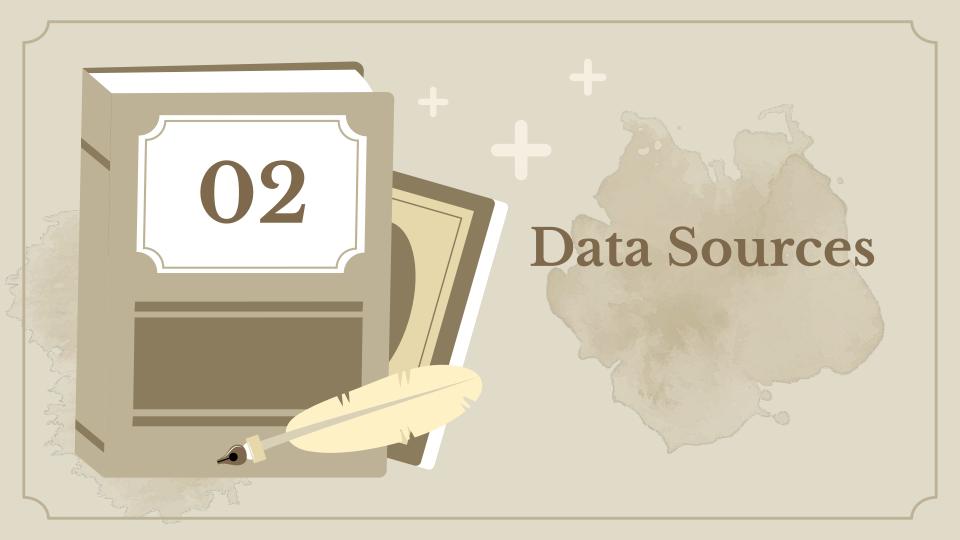


- User ratings and reviews site
- Popular and growing

Critical to Book Sales

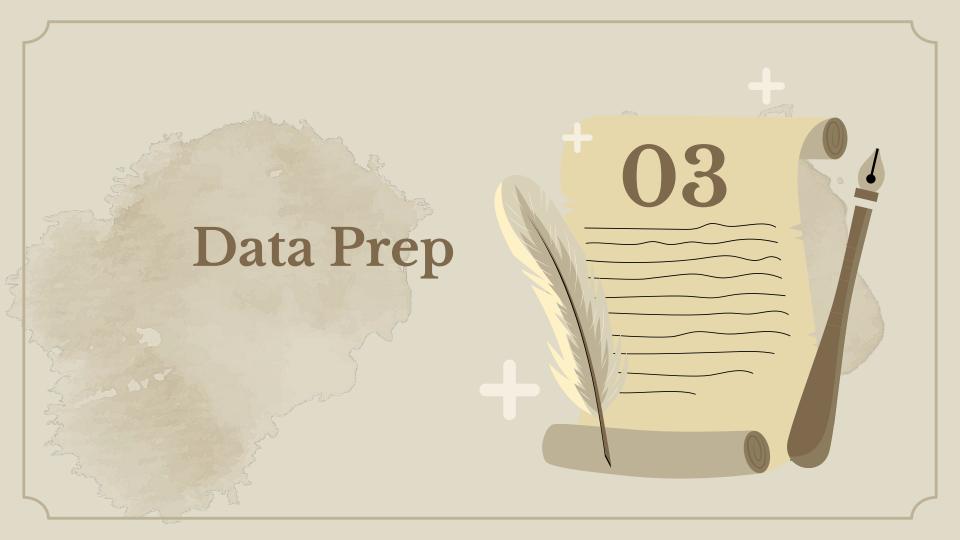


- Intermediary that drives book purchases
- Book sales industry is growing

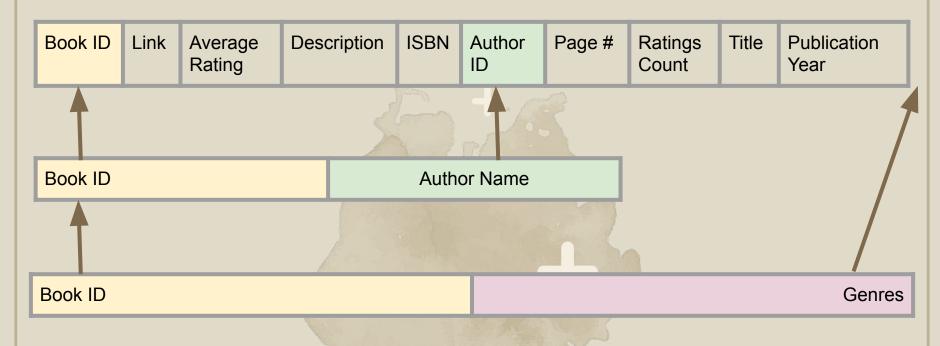


4 Datasets

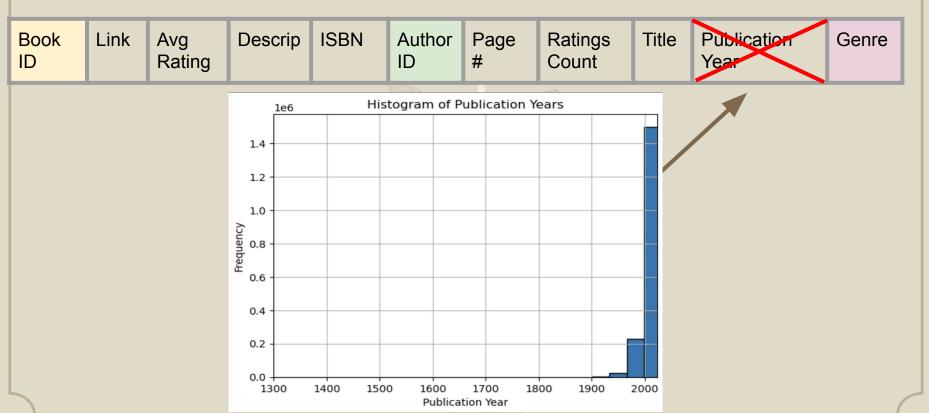




Metadata



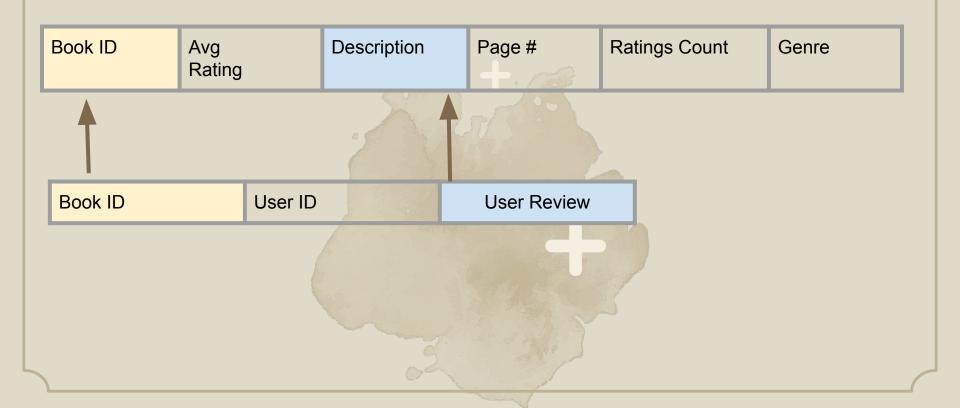
Metadata (Cont)



Metadata (Cont)



Model Dataset





Processing Model Dataset



Scaling Numeric Columns (Normalization)



One-Hot Encoding Genres



NLP Text Data

A Closer Look at NLP



Removing Stopwords, Punctuation, Digits



Lemmatizing



Tokenizing

TF-IDF Vectorization

	action	actually	adventure	age
book_id				
1333909	0.0	0.0	0.00000	0.0
6066819	0.0	0.0	0.23184	0.0

The Recommendation Function





Recommendations 1

"Two women friends, husbands, daughters"

Vinegar Hill

A wife and husband threatened

Heaviness of Things
That Float

A woman with no family, a man like a son, upheaval and pain

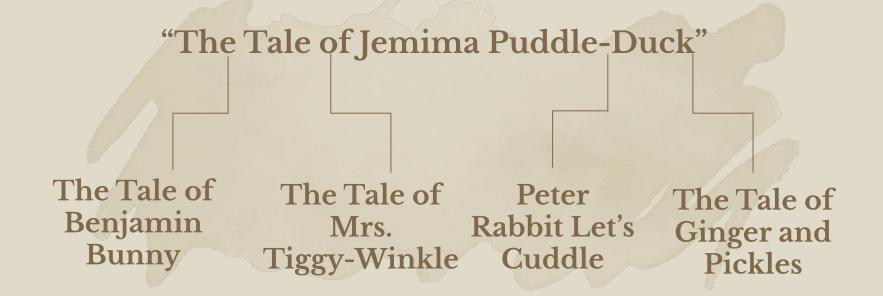
The House on Swiss Ave

Two women with dark secrets, devoted to family

The Waiting Place

A pregnant woman and wife on the family farm

Recommendations 2



Next Steps:

- Additional features available from GoodReads
- Applicable to other sites
- Collaborative Filtering



Thank You

Citations:

Mengting Wan, Julian McAuley, "Item Recommendation on Monotonic Behavior Chains", in RecSys'18. [bibtex]

Mengting Wan, Rishabh Misra, Ndapa Nakashole, Julian McAuley, "Fine-Grained Spoiler Detection from Large-Scale Review Corpora", in ACL'19. [bibtex] SEMrush. "Goodreads.com - Overview." SEMrush.

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