Localebnb

An Airbnb Contextual Recommender

G Scott Stukey

Motivation

When booking a private residence, how do you find the perfect neighborhood?

Problem

AirBnB Search Page

Listings belong to Neighborhoods (many:1)

AirBnB Neighborhood Guide

Neighborhoods exhibit traits (many:many)

No ability to explicitly search/filter directly by trait!

Hypothesis

We can use listing descriptions to tease out neighborhood traits & customize search.

Customer:

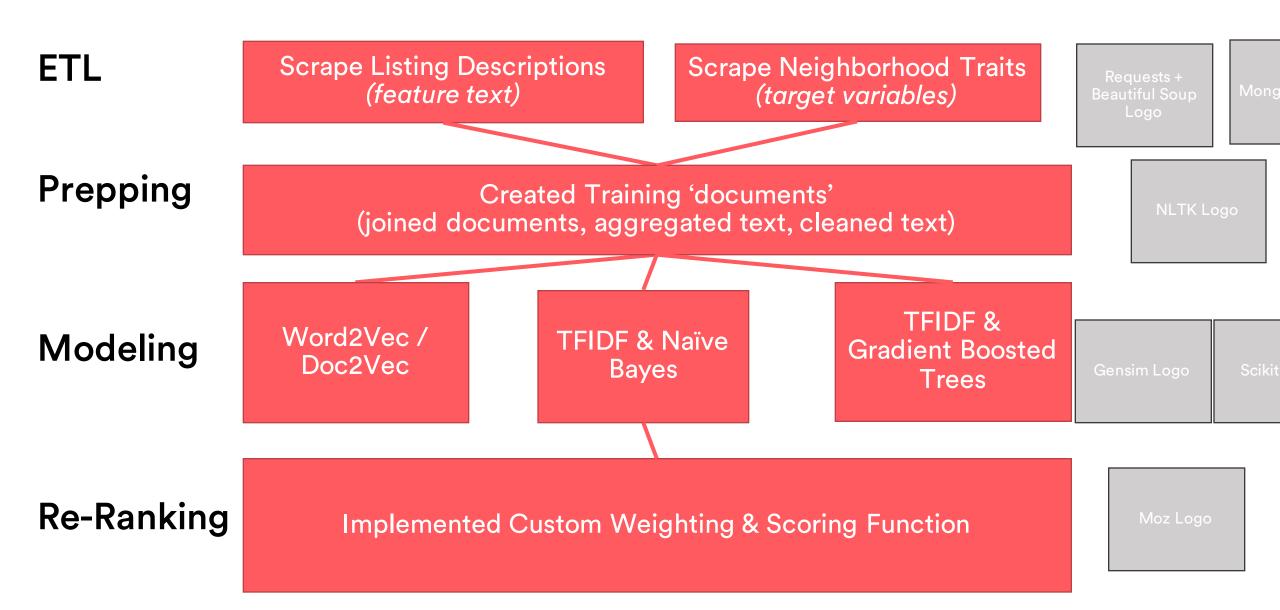
Increased Satisfaction

Business:

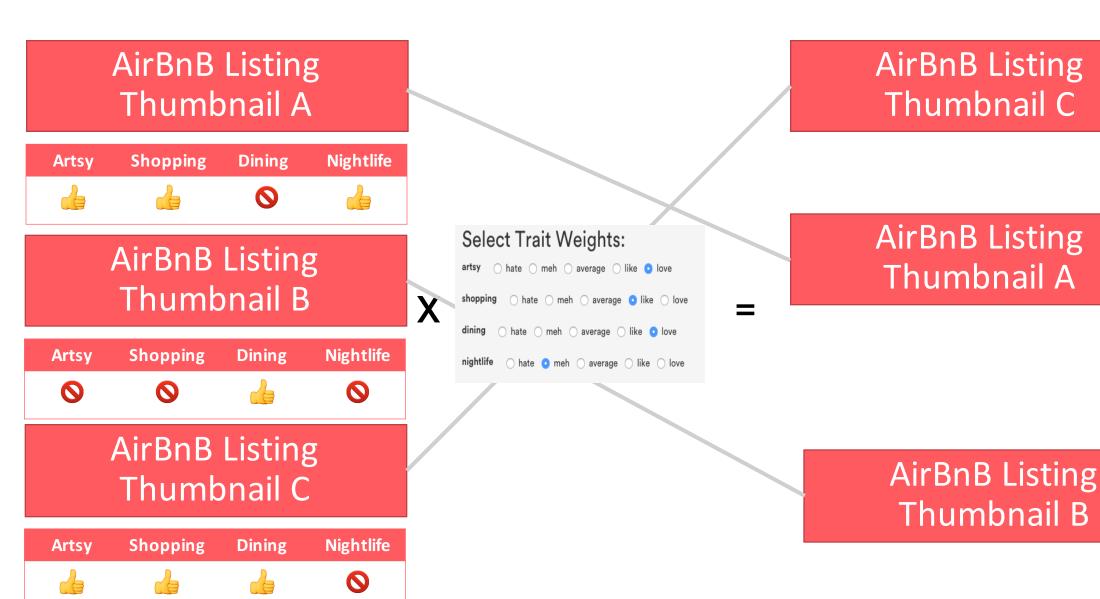
Increased Revenue

AirBnB Listing Page

Methodology



Example



:30 Video of App > ReScoring

Results / Outcomes / Extensions

- Trait Models Achieved 75-80% Accuracy
 - +15 pt lift over benchmark

Business Outcome Modeling showed Revenue lift of xx% (?)

Thank You

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