





HEALTH AND WELLNESS APP REVIEW

ANDI OSIKA

BACKGROUND:

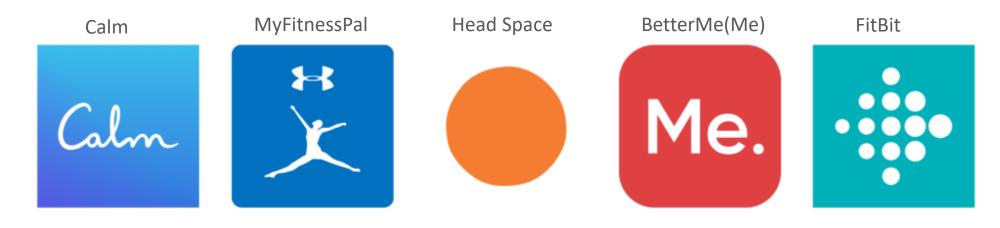
HEALTH AND WELLNESS APPS

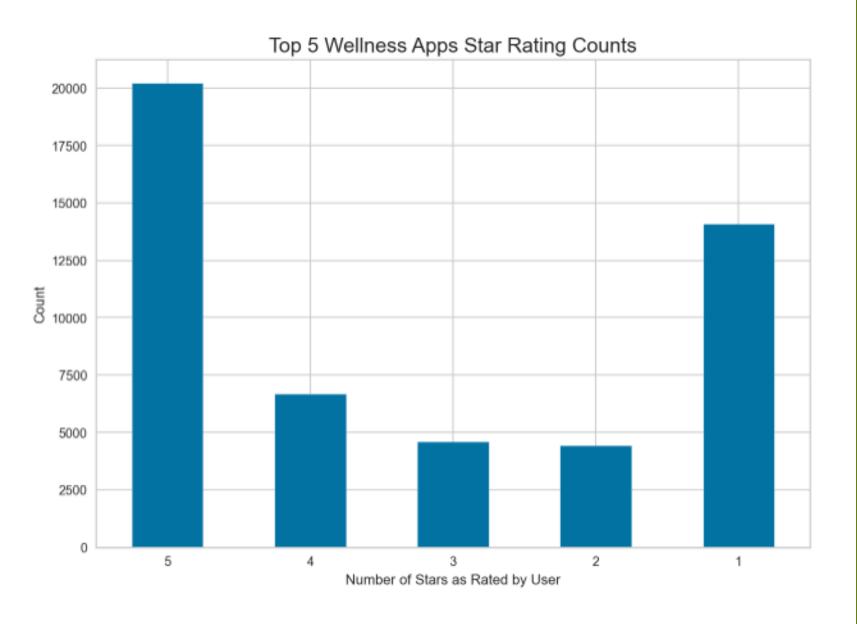
USER REVIEW INSIGHT

BACKGROUND:

- Mobile application programs focusing on various aspects of promoting digital health
- Categories/Examples:
 - Sports/Fitness Tracking
 - Diet Nutrition/Weight Loss
 - Stress Reduction

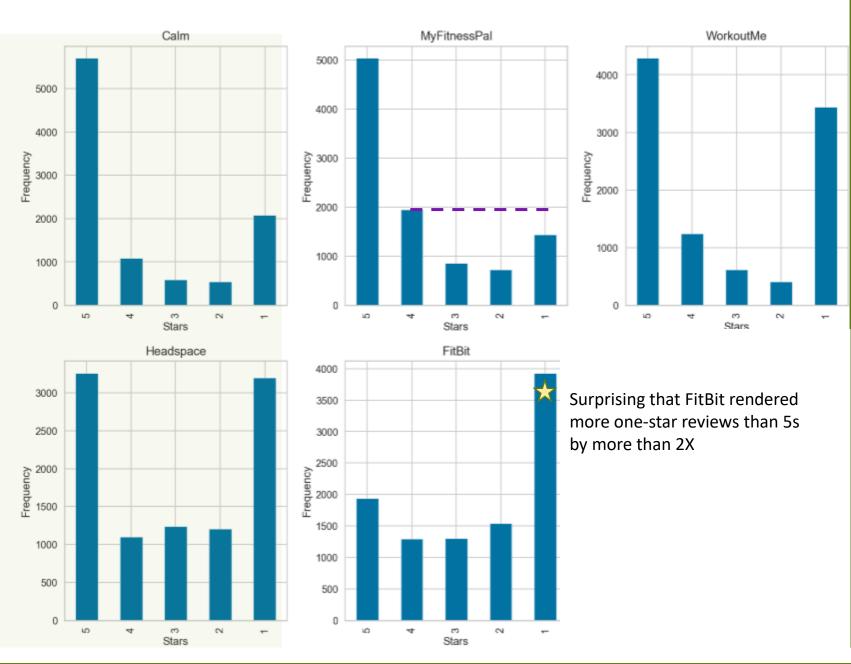
- Mediation
- Medical Tracking, Community, and Services
- Positive user sentiment key component of conversion rate.
- Top 5 Grossing Health/Wellness Apps on Google Play:



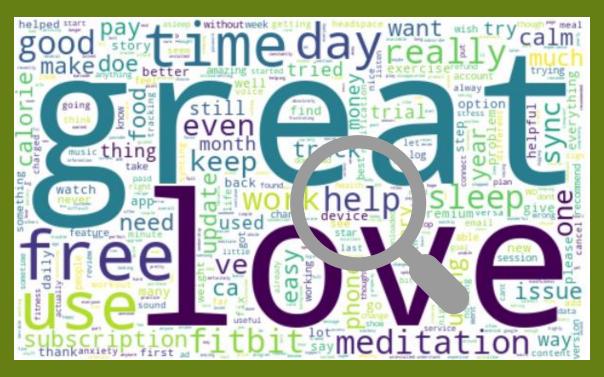


ACROSS THE BOARD,
REVIEWERS
RATE WELLNESS APPS
5 OR 1 STARS MOST
FREQUENTLY WHEN
IT COMES TO MOST
RELEVANT REVIEWS:

Comparative Ratings Across Top 5 Wellness Apps



THE SAME PATTERN
CARRIED THROUGH EACH
INDIVIDUAL APP, WITH
ONE EXCEPTION.



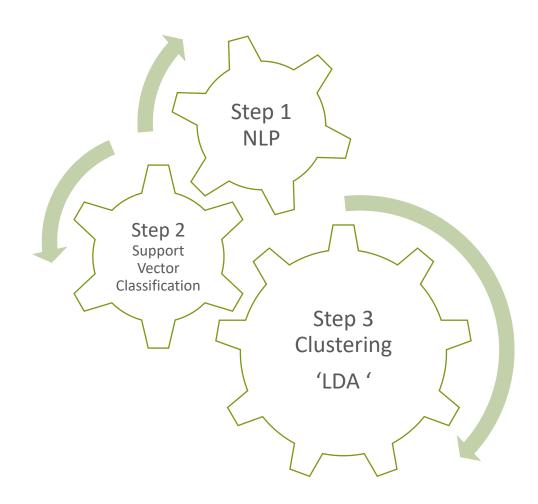
WHAT'S IN A REVIEW? METHODOLOGY:

NATURAL LANGUAGE PROCESSING, SUPPORT VECTOR CLASSIFICATION AND 'CLUSTERING' A.K.A.

(NLP, LSVC, & LDA)

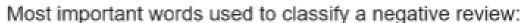
THE PROCESS OF EXAMINING REVIEW CONTENT

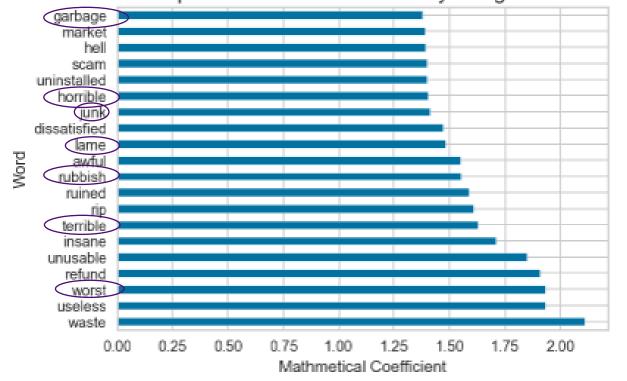
- Natural Language Processing:
 - Makes words → 'Vectors'
- Support Vector Machine Classification
 - Vectors → Classification
 - 'Positive', 'Negative' or 'Neutral'
- Clustering
 - Looks for patterns in terms based on how they 'relate' to each other.
 - LDA: Latent Dirichlet Allocation



RESULTS:

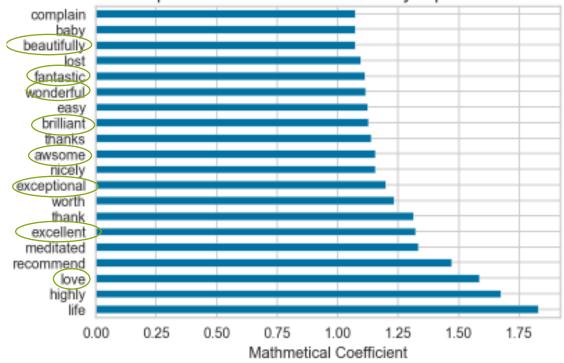
ISVC: Linear Support Vector Classification





Class	Baseline Values:	ISVC Values:
Positive Sentiment	41%	92%
Negative Sentiment	31%	85%
Neutral Sentiment	28%	43%

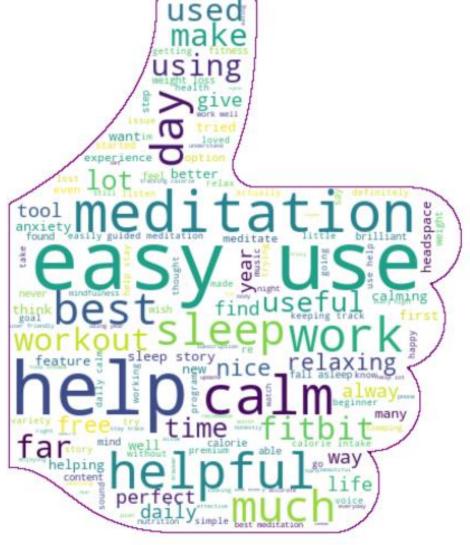
Most important words used to classify a positive review:



What are the most frequent terms used in a 5 - star review?



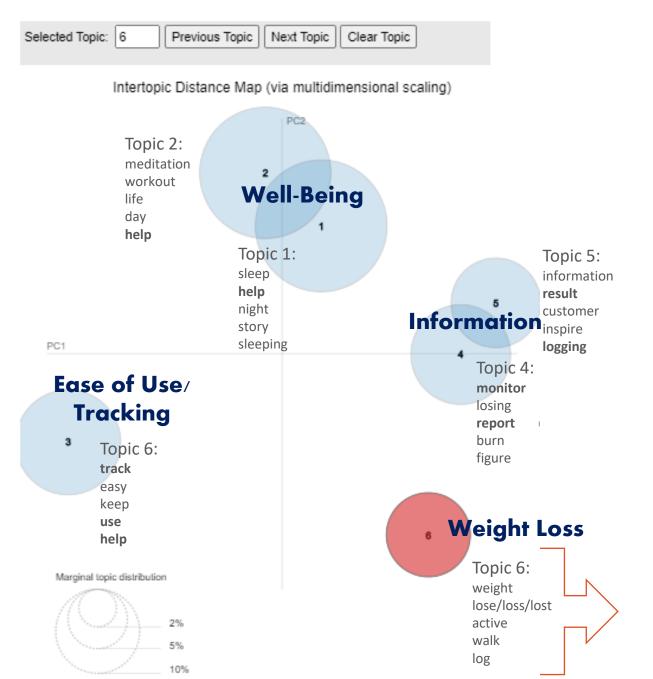






POSITIVE SENTIMENT CLUSTER ANALYSIS USING

LATENT DIRICHLET ALLOCATION – L.D.A

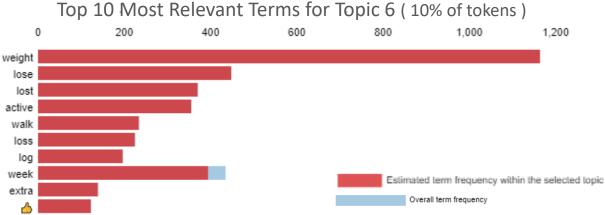


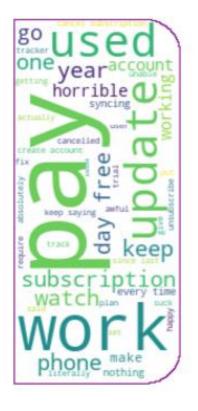
5-Star LDA Model Results

6 Topics

4 Areas

Cross- topic terms: Tracking/logging, use, help



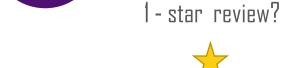


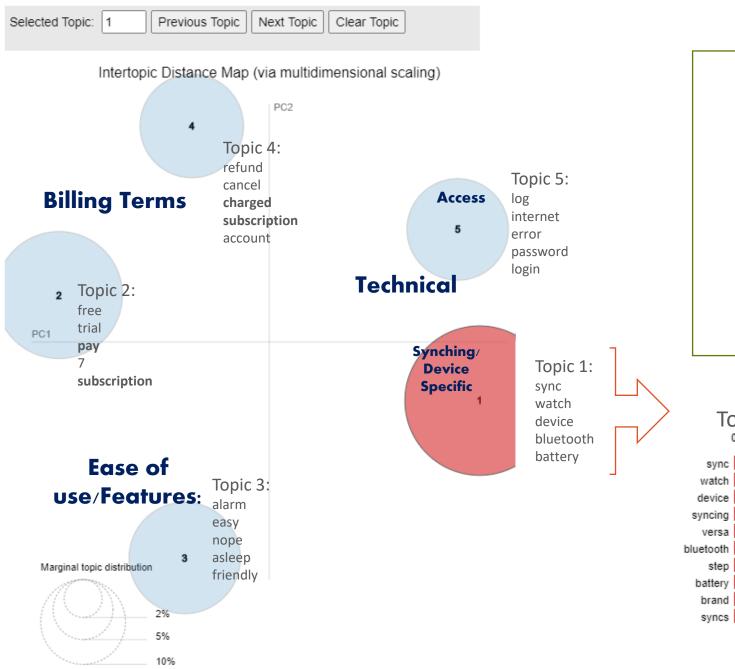


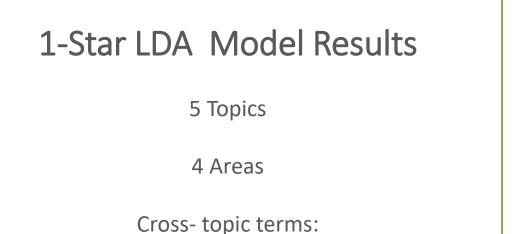
NEGATIVE SENTIMENT ANALYSIS USING

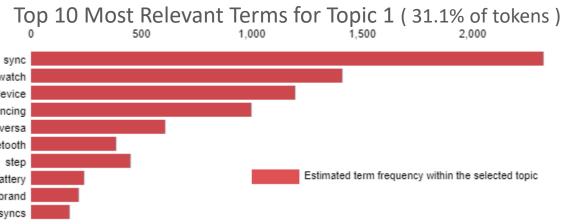
LATENT DIRICHLET ALLOCATION – L.D.A.

What trends are observed by comparing words used in relation to the rating?



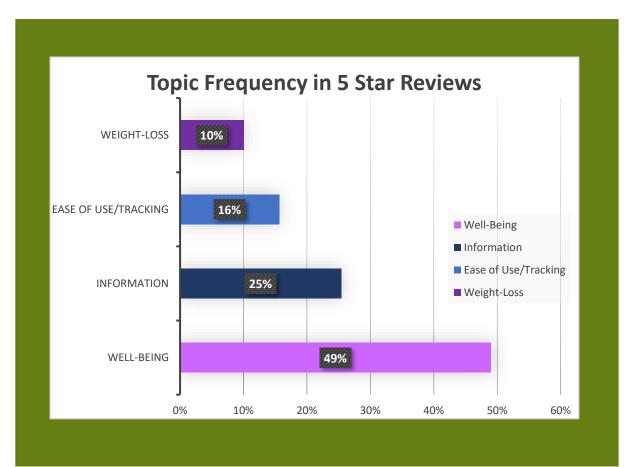


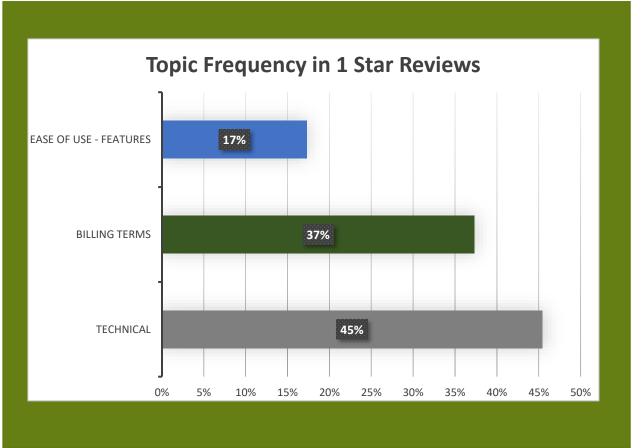




Subscription, payment

5-STAR VS 1-STAR REVIEW COMPOSITION COMPARISON:

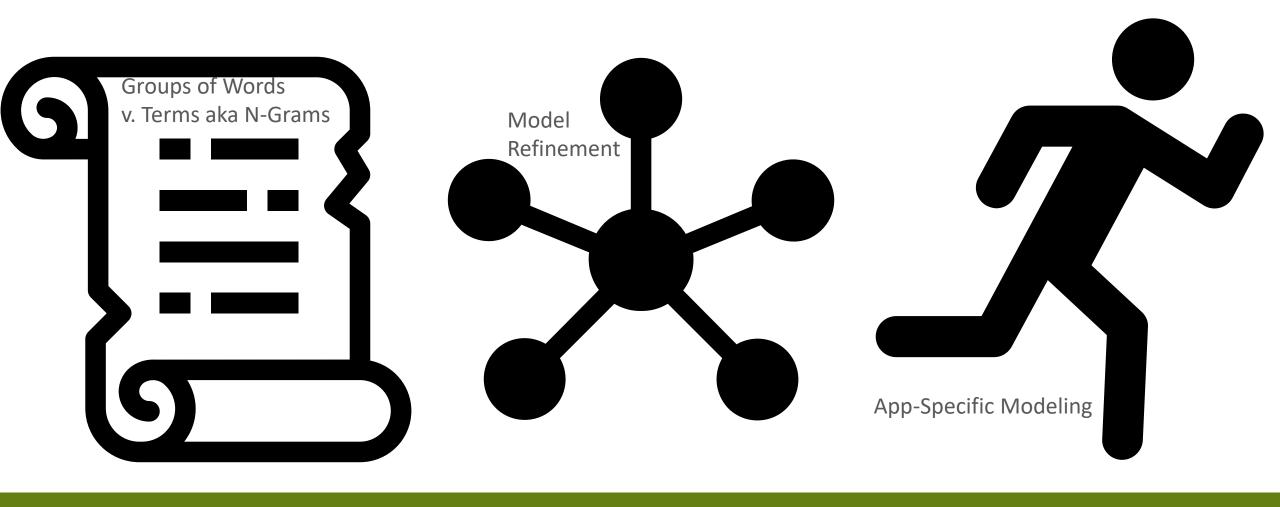




RECOMMENDATIONS

MAKE EASE OF USE A PRIORITY
IMPROVE ACCESS TO RELEVANT INFORMATION
EXPLOIT APP-SPECIFIC FEATURES

RESOLVE SYNCING ISSUES
BE CLEAR ON TRIAL AND PAYMENT TERMS



FUTURE WORK:

THANK YOU

VISIT: FOR CODE VISIT: FOR DASHBOARD