

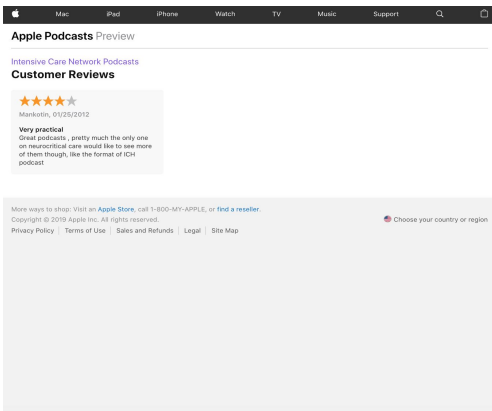
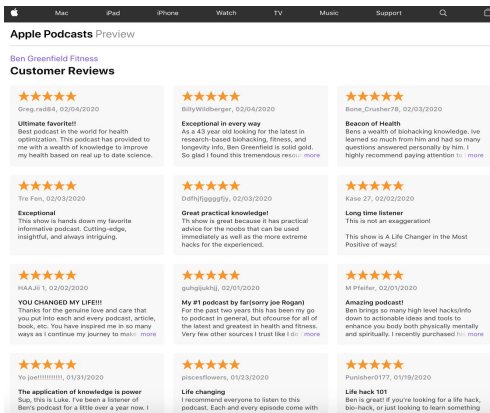
Podcast Prophet

Predict podcast rating, provide suggestions based on the podcast reviews

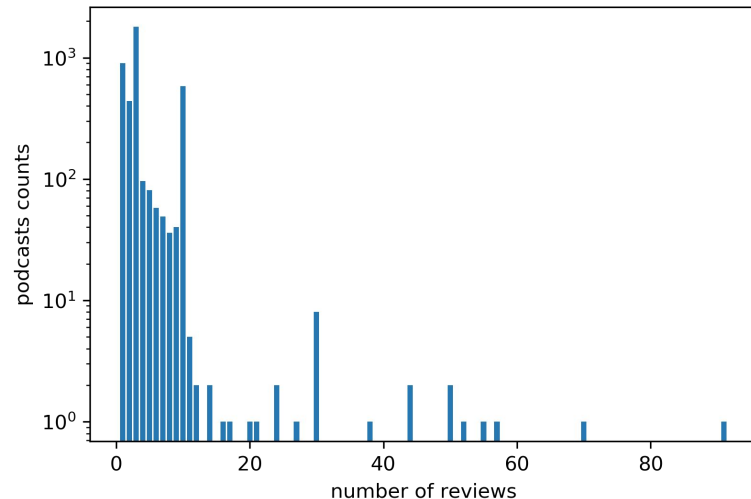
Ziying Feng



Problem



Number of Reviews Distribution



- Among **10k+** fitness and health podcasts, **4115** podcasts have reviews
- Listeners: if it has one review, how to know if it is a good podcast to listen to?
- Creators: how can I get more people to listen to my podcasts?

Web app



PODCAST *Prophet*

Please Enter Fitness Podcast Link:

Submit

Please input a fitness podcast link. More links at [itunes Preview](#).

Web app - output

Submit

Podcast name: Logical Weight Loss Podcast

good

The Podcast is rated as good

Information score: 4.9

Emotion score: 2.6

Advertisement score: 1.0

Audio score: 1.4

The information is helpful. 👍

The emotion it conveys is quite positive. 👍

The ads are annoying. 😞

Need to adjust the audio quality. 😞

Data



Scraped 10k Fitness Podcasts from iTunes

Review
Categorization

Description

Apple Podcasts Preview



The Nutrition Diva's Quick and Dirty Tips for Eating Well and Feeling Fabulous

Quick and Dirty Tips

Nutrition

[Listen on Apple Podcasts](#)

JAN 28, 2020

465 - Can You Absorb Nutrients Through Your Skin?

With transdermal nutrition, you slap on a patch and don't need that vitamin reminder. But do these products really deliver or are they a waste of money? Read the transcript at <https://www.quickanddirtytips.com/health-fitness/trends-fads/can-you-absorb-nutrients-through-your-skin/>

▶ PLAY 9 min

300 episodes

Nutrition Diva Monica Reinagel serves up simple, painless ways to upgrade your eating habits. Before you know it, you'll be eating healthier and feeling more fabulous!

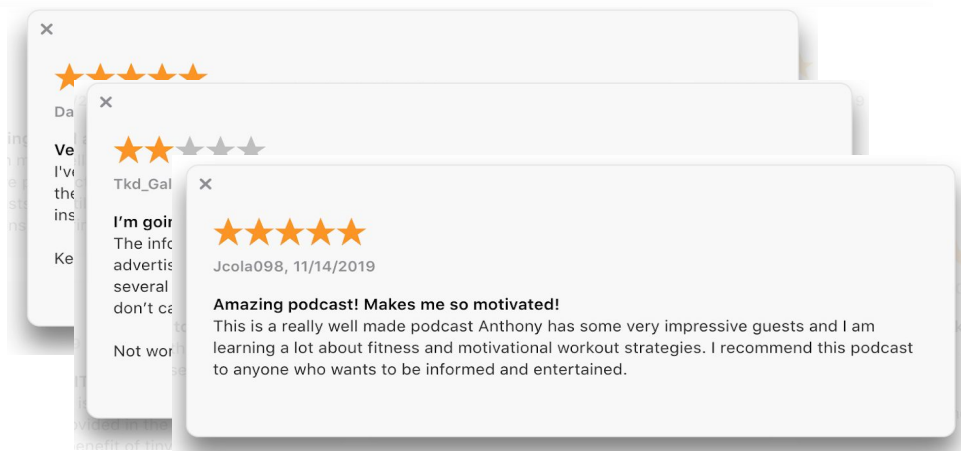
JAN 21, 2020

558 - Best and Worst Diets of 2020 with Jill Weisenberger

Registered dietitian and nutritionist Jill Weisenberger joins Nutrition Diva to share the results and an inside look at the process behind US News and World Report's annual Best Diet Rankings. TRANSCRIPT: <https://quickanddirtytips.com/health-fitness/healthy-eating/best-diets/>

▶ PLAY 23 min

Review



Sentiment Analysis

Description
Vectorization

Prediction

Data

Review
Categorization

Sentiment Analysis

Description
Vectorization

Prediction

Information

knowledge
data
news
intelligence
insight
.....

Emotion

inspiring
feeling
delight
disappoint
unhappy
.....

Advertisement

advertisement
promotion
sponsor
product
brochure
.....

Audio

audio
sound
voice
acoustic
frequency
.....

Cosine Similarity **spaCy**

"Makes me so motivated! It has a fantastic and enormous variety of sounds and speeds. Very informative and gained some new insights that will help me take my workout to the next level. But the advertisements are annoying, they interrupt already brief podcasts. "

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Data

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Categorization

Sentiment Analysis

Description
Vectorization

Prediction

"**Very informative** and
gained some **new insights**
that will help me take my
workout to the next level."

vaderSentiment

[Information, Emotion, Advertisement, Audio]

[1.67, Emotion, Advertisement, Audio]

Data

Review
Categorization

Sentiment Analysis

Description
Vectorization

Prediction

vaderSentiment

[Information, Emotion, Advertisement, Audio]

"**Very informative** and
gained some **new insights**
that will help me take my
workout to the next level."

"**Makes me so motivated!**" [1.67, 1.58, Advertisement, Audio]

Data

Review
Categorization

Sentiment Analysis

Description
Vectorization

Prediction

vaderSentiment

[Information, Emotion, Advertisement, Audio]

"**Very informative** and
gained some **new insights**
that will help me take my
workout to the next level."

"**Makes me so motivated!**"

"But the **advertisements** are
annoying, they **interrupt**
already brief podcasts."

[1.67, 1.58, -0.70, Audio]

Data

vaderSentiment

[Information, Emotion, Advertisement, Audio]

Review
Categorization

"**Very informative** and
gained some **new insights**
that will help me take my
workout to the next level."

Sentiment Analysis

"**Makes me so motivated!**"

Description
Vectorization

"But the **advertisements** are
annoying, they **interrupt**
already brief podcasts."

Prediction

"It has a **fantastic** and
enormous variety of **sounds**
and **speeds**."

[1.67, 1.58, -0.70, 0.90]

Data

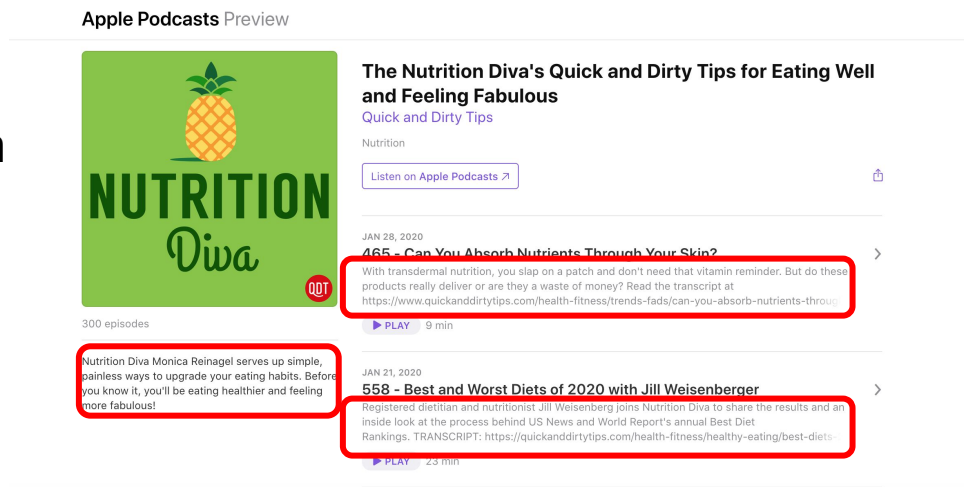
Review
Categorization

Sentiment Analysis

Vectorization

Prediction

Description



- TF-IDF vectorize descriptions
- Concatenate with the sentiment vector

**Description TF-IDF Vector +
Review Sentiment Vector**

Data

Review
Categorization

Sentiment Analysis

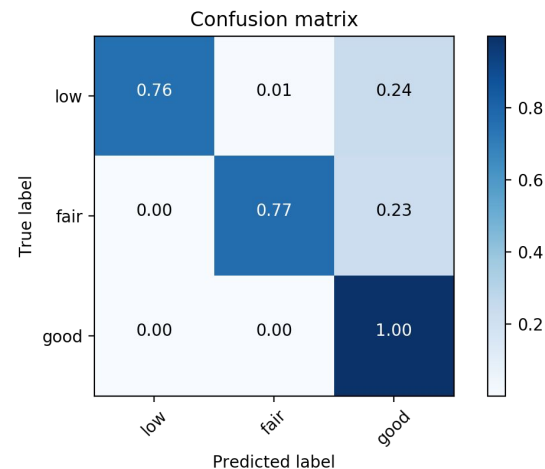
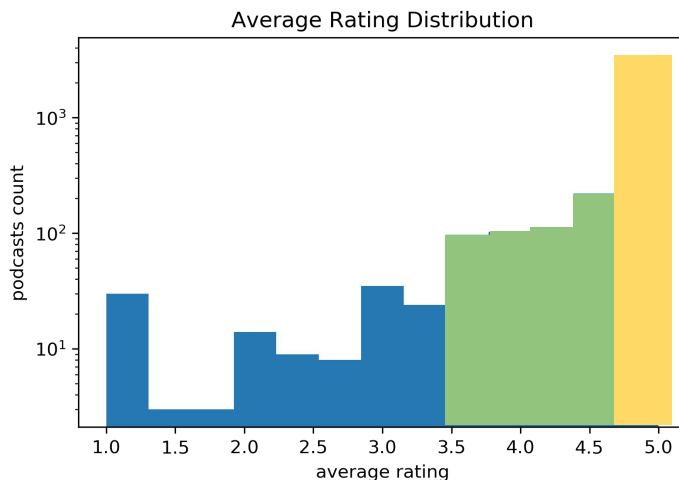
Vectorization

Prediction

Random Forest Classification

- Low:** $0 < \text{average_rating} \leq 3.5$ (136 samples)
Fair: $3.5 < \text{average_rating} \leq 4.8$ (658 samples)
Good: $4.8 < \text{average_rating} \leq 5.0$ (3321 samples)

Train and validate the weighted model on samples that have ≥ 2 reviews, accuracy **84%**



How it works?

Apple Podcasts Preview



300 episodes

Podcasts on topics relevant to intensive care medicine

Intensive Care Network Podcasts

Oliver Flower

Medicine

[Listen on Apple Podcasts ↗](#)



JAN 21, 2020

Developing EM - Colombia, March 9-11 2020

Oli Flower talks to Mark Newcomb and Lee Fineberg about the upcoming Developing EM conference in Cartagena, Colombia. March 9-11, 2020. All the details are here: <https://developingem.com>

[▶ PLAY](#) 17 min

OCT 3, 2019

Top 10 critical care papers of recent times

Top 10 critical care papers of recent times

Dr Paul Young

From CICM Trainee Symposium 2019



Mac

iPad

iPhone

Watch

TV

Music

Support



Apple Podcasts Preview

Intensive Care Network Podcasts

Customer Reviews



Mankotin, 01/25/2012

Very practical

Great podcasts, pretty much the only one on neurocritical care would like to see more of them though, like the format of ICH podcast

rating = 4, Fair

More ways to shop: Visit an [Apple Store](#), call 1-800-MY-APPLE, or [find a reseller](#).

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Choose your country or region

PODCASTProphet

Please Enter Fitness Podcast Link:

Submit

Podcast name: **Intensive Care Network Podcasts**

good

The Podcast is rated as good

Information score: **0.0**

Emotion score: **0.9**

Advertisement score: **0.0**

Audio score: **0.0**

Need more helpful information. 😊

Need more positive emotion. 😊

Need to adjust the ads. 😊

Need to adjust the audio quality. 😊

Ziying Feng

PhD, Chemistry

