



A User Recommendation System

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BUSINESS IDEA



Amazon Sales

34%
Recommendations



Restaurants
Recommendation
System



Hospitality Industry

20% growth rate
Restaurants





The Data



WHAT?
27000 reviews



WHO?
192000 businesses



WORK

- ✓ Remove all punctuation
- ✓ Remove all stop words
- ✓ Returns a list of the cleaned text



More Work
Examined documents
in micro detail



SOLUTION



Preprocess

meaningful format
is at the heart of NLP



Tokenize

split documents
into lists of tokens



Pivot table in pandas



Vectorize

Convert documents to
bag of words vector representation



TFIDF

Reflect how important a word is
to a document in a collection or corpus.

MODEL



STEP 1

Matrix Factorization
technique for unsupervised NLP
to break a large matrix down into the
combination of two smaller matrices



STEP 2

collaborative filtering method to find
the relationship between
items' and users' entities



STEP 3

Pickle
simply save your model on disc
and de-pickle it into your python



STEP 4

Test the model



THE PROJECT



1

Chance to be your own boss



3

Online



2

Self-management lets you
build your own workflow



4

Insert more
info here





Demo
