Restaurant Analytical Solution

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Objective

- To develop a restaurant analytical solution for customers, restaurant owners and investors

Requirements

- Implement recommendation system
- Develop rating prediction algorithm
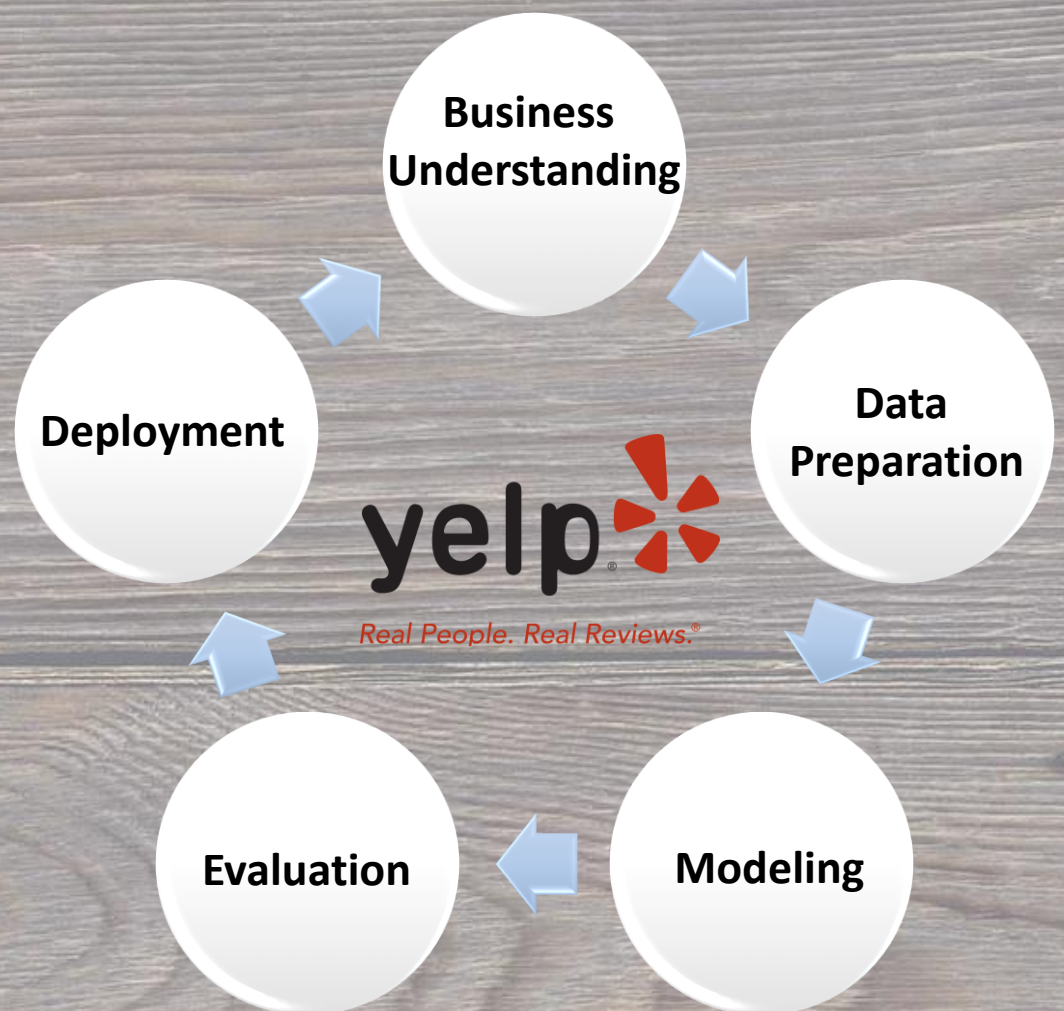- Deploy business shutdown prediction solution

Recommender

Business Understanding → Data Preparation → Modeling → Evaluation → Deployment → (cycle around yelp. Real People. Real Reviews.)

Results

	Shutdown	In operation
Shutdown	467	219
In operation	1361	3316
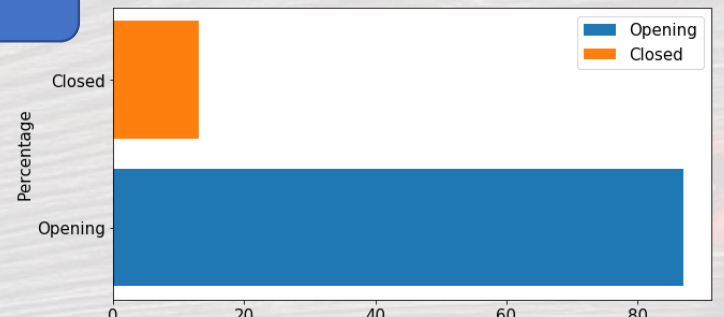
below average   above average

favorite 0.16
sad 0.15
amazing 0.12
incredible 0.11
powerful 0.10
waste 0.10
outing 0.09
lousy 0.09
flaking 0.09
shame 0.08
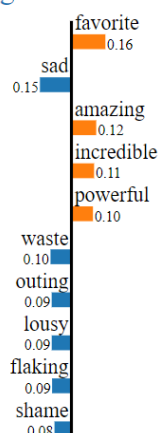
Index: 47
True class: below average

Prediction probabilities

below average   0.66
above average   0.34

Text with highlighted words
this is, and always will be, the icon of my childhood   my favorite meal, my favorite outing powerful memories that little bit of hot dog with the liver steak, the amazing fatty smoked meat, the perfect fries, the cherry drink, the incredible high value rib steaks   but alas, our memories deceive us   because they stay locked in one place, one context, even as we and those around us undergo change

and so it is with schwartz's   the greatness era is over the restaurant is now a parody of its old self inundated with tourists who know nothing of authentic smoked meat as it should be   shame, because this place is in a downward spiral and i hate thinking that   i hate knowing that   i want it to restore itself to its old form   where the meat was invariably moist and the experience was nirvana like perfection

now, it's hit or miss   one day savory, juicy, good   the next dry, flaking, lousy   i will no longer waste my time in those outrageous lines knowing that there is little certainty i'll be rewarded for my efforts   i'd rather hit snowdon deli where i know i'm going to get a hell of a sandwich or platter, plus all the trimmings, reliably

indeed, it is a sad, sad day