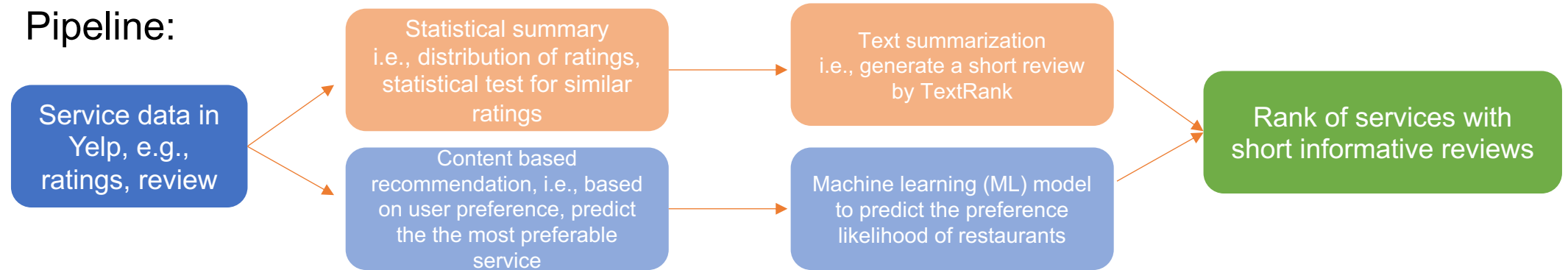


## Goal: short quantitative summary and rank of restaurants in Yelp.

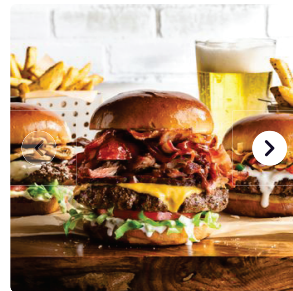
- Step1: statistical analysis on rating, distribution of reviews, and generate a review summary by TextRank.
  - Step2: apply content-based recommendation to rank restaurant for customers.

### Pipeline:



### Result: (step 1, completed)

#### Input:



#### Chili's

☆☆☆☆ 218

\$\$ · Tex-Mex, American (Traditional), Bars

📍 0.01 Miles

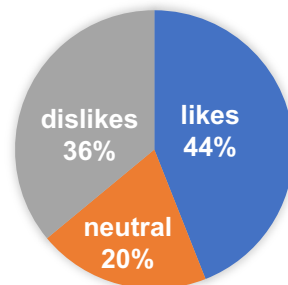
"Awesome food, amazing service & great drinks! We haven't been to Chili's in at least a year & I absolutely love the new menu. Everything was top quality &..." [more](#)

(702) 638-1482  
2011 N Rainbow Blvd

#### Numbers:

35% services have > 30 reviews,  
89% services have ratings from 3.0-4.5

#### Output:



Ratings: **3.06**, by comparing with Wendy's (2.9), p-value is 0.02, statistically better than Wendy's

"The staff is very polite and from what I could see the dining area is very clean. We have always had great service and the food is always the best."

—summary of positive reviews by TextRank

"Will be a long time before I give them my business again!"

—summary of negative reviews by TextRank