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SnowBird Taco Tour

Our concept, Snowbird Taco Tour, is based on the notion that it's common for people to flee the cold weather in the northern states, like Minnesota, for warmer weather in Phoenix, Arizona. When we head south we have to find a great spot to eat and hang out with friends and family, and why not make it easy: everybody loves tacos!

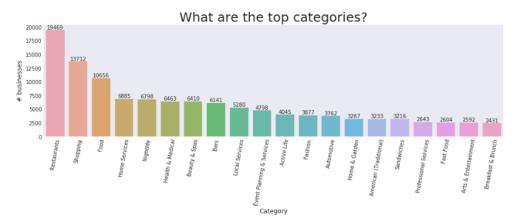
Our initial goal and plan was to do a "Great North American Taco Tour" utilizing Yelp data found on Kaggle in order to analyze taco and burrito locations and help others find them too in the US and Canada. Our inspiration was rooted in the deep and unabiding love nearly all Americans have for the Mexican (or maybe not-so-Mexican depending on how close you are to Canada) favorite. The plan was to provide a resource for others to input their desired location(s) and attribute(s) and then provide them with recommendations. We wanted to use supervised machine learning to predict restaurant ratings based on various business attributes provided in the Kaggle dataset as well. These attributes included elements spanning a wide range of topics like parking availability, ambiance, music and dancing, menu availability for special diets, and whether our four-legged friends are welcome as well.

We felt like this was a fun topic because of its relatability, and also we could put a really spicy twist on our dashboards. Our initial expectations were that given the popularity of tacos and burritos, there would be a substantial amount of data and perhaps some concentrations along the coastlines and states bordering Mexico. But as with all visions, we found that revisions needed to be made after we did a deep dive into our data, turning what we were hoping for as the "Great North American Taco Tour" into the "SnowBird Taco Tour".

Exploratory Data Analysis (EDA)

We decided on the data filters to first be only restaurants (19,469) and then to those that serve tacos and burritos (1,083).

There are 59106 different types/categories of Businesses in Yelp!



But shortly after mapping the data based on geocodes in Tableau, it was apparent that the geocodes were not the most accurate and needed to be replaced.

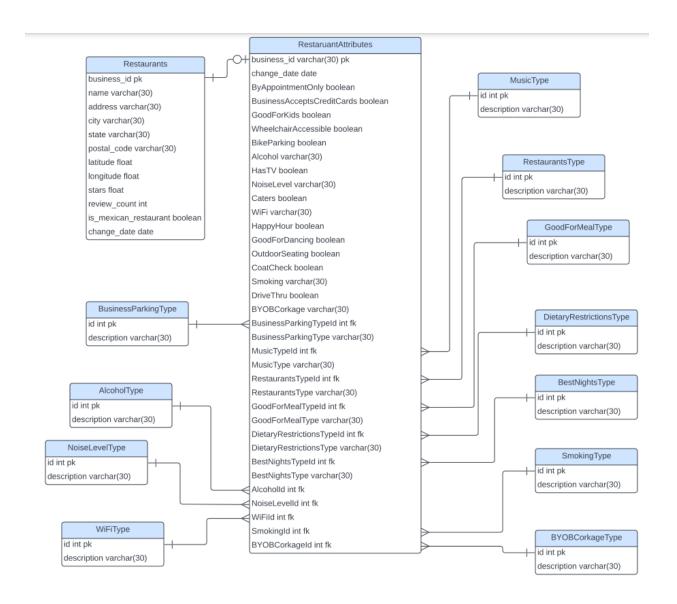


As seen above and to our surprise, the geocodes from the original data set were not recorded correctly. For example, there is a plot point for Toronto, Canada in Brazil, South America and even Henderson, Nevada in China to name only a couple. An additional observation was during the machine learning process and it was looking at the visualized density/shape of the ratings. Although it is a fairly even distribution, there could be possible speculations of it being bimodal.

```
# Visualize the value counts of stars
stars_counts = restaurants_df.stars.value_counts()
print(stars_counts)
stars_counts.plot.density()
3.5
       3581
4.0
       3194
3.0
       2950
2.5
       1485
4.5
       1363
2.0
        678
5.0
        333
1.5
        209
1.0
         55
Name: stars, dtype: int64
<AxesSubplot:ylabel='Density'>
   0.00025
   0.00020
   0.00015
   0.00005
   0.00000
        -2000
             -1000
                                2000
```

Database Section

We considered both BI and ML use cases when developing our data model as well as our cleaning strategy. Restaurant demographic data is contained in a dimension table called "Restaurants" and attributes are contained in a separate table called "RestaurantAttributes" We developed 11 additional small categorical tables which could be used as lookups in BI as well as to reduce the number of dimensions for machine learning. These categorical tables contain derived distinct values from categorical columns or from ranges of boolean columns containing similar attributes.



In our data engineering notebook we used several libraries: pandas for creating and manipulating dataframes, numpy mainly for null handling, SQLAlchemy for interacting with sqlite database, googlemaps and requests for geocoding, datetime and dateutil.parser for date type conversions, pathlib and csv for interacting with CSV files.

We developed a number of functions for the ETL process. For the restaurants table, we started with the function that takes input parameters dbg (Y/N indicator) and an API key to pass through to the geocoding functions. Followed by, import data from yelp_business.csv, filter to only open businesses containing the category "Restaurants", set a boolean flag "is_mexican_restaurant" to indicate if the restaurant has Mexican or Tex-Mex cuisine, dropped unneeded columns, replaced nulls with an empty string, and tagged rows with a "change_date" value.

```
# Run Restaurants ETL
  business_df = etl_restaurants(dbg,gmaps_key)
   # Validate success
  verify_inserts('Restaurants')
   index BIGINT
   business_id TEXT
   name TEXT
   address TEXT
   city TEXT
   state TEXT
   postal code TEXT
   latitude FLOAT
   longitude FLOAT
   stars FLOAT
   review_count BIGINT
   is_mexican_restaurant BOOLEAN
   change_date DATE
   Row Count: 14225
      index
                           business_id
                                            name
                                                      address
                                                                   city state postal_code
                                                                                             latitude
                                                                                                       longitude stars review_count is_mexican_re:
                                        "East Coast
                                                    "737 West
   0
         10 XOSRcvtaKc_Q5H1SAzN20A
                                                               Houston
                                                                          PA
                                                                                    15342 40.241548
                                                                                                      -80.212815
                                                                                                                   4.5
                                           Coffee'
                                                      Pike St"
                                            "Alize
                                                        "2459
                                                                                 M4P 2H6 43.711399
                                                                                                                                 12
   1
         15
              I09JfMeQ6ynYs5MCJtrcmQ
                                                                Toronto
                                                                          ON
                                                                                                      -79.399339
                                                                                                                   3.0
                                         Catering"
                                                     Yonge St"
                                            "Toast
                                                    "2429 Hwy
         29
              gAy4LYpsScrj8POnCW6btQ
                                                                Fort Mill
                                                                          SC
                                                                                    29708 35.047287
                                                                                                      -80.990559
                                                     "305 Rue
                                         "Le Bistro
                                                       Sainte-
   3
         32 1 3nOM7s9WanJWTNu2-i8Q
                                                               Montreal
                                                                          QC
                                                                                  H2X 2A1 45.506772 -73.566725
                                                                                                                   3.0
                                                     Catherine
                                                         "245
                                        "Carrabba's
              BnuzcebyB1AfxH0kjNWqSg
                                                    Lancaster
                                                                 Frazer
                                                                          PA
                                                                                    19355 40.041003 -75.542497
                                                                                                                                 25
                                                        Ave'
                                                     "104 43rd
         64 EJFdWX908N8Yc2XG0Lky8A
                                                                                    15201 40.472735 -79.963265
                                                                                                                                  5
                                                              Pittsburgh
                                                                          PA
                                                                                                                   4.0
   5
                                       Moon Cafe'
                                                          St"
                                                      "4250 S
                                            "Cafe
                                                      Rainbow
                                                                   Las
         91 F0fEKpTk7gAmuSFI0KW1eQ
                                                                                    89103 36.111057 -115.241688
                                         Mastrioni'
                                                     Blvd. Ste
                                                                 Vegas
                                                        1007"
                                           "La Isla
                                                        "1816
              HAX1zec191t7QkT2sBZ76A
                                                      Galerea
                                                                          NC
                                                                                    28270 35.137223 -80.734594
                                                               Charlotte
                                           Cuban
                                       Restaurant"
                                                  Blvd, Ste D"
                                           "Mirage
                                                         "117
             1nhf9BPXOBFBkbRkpsFaxA
                                                      Eglinton
                                                                                 M4P 1H4 43.707465 -79.394285
                                                                Toronto
                                          Lounge"
                                                    Avenue E'
                                            "Police
                                                        "7235
        118 T5CdfrZWw-uW9Y5L_sddqQ
                                                                                    15071 40.442828 -80.186293
                                           Station
                                                  Steubenville
                                                                Oakdale
```

To prepare and load data into the Reviews table we developed a function that takes an input of restaurants as a dataframe to perform the following tasks: import data from yelp_tip.csv, drop rows with null values, filter to include only restaurant reviews, create a unique key by applying index as a column and reorder columns so that index is the first column, convert "date" string value to date data type, add a "change_date" column, and write the modified records to the Reviews table in the SQLite database.

Run Reviews ETL
etl_reviews(business_df)
Validate success
verify_inserts('Reviews')

review_id TEXT text TEXT date DATETIME likes BIGINT user_id TEXT change_date DATE Row Count: 1098322

business id TEXT

	business_id	review_id	text	date	likes	user_id	change_date
0	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	Combo A: Roast duck, roast pork, Singapore noo	2015-10- 12	0	6tbXpUIU6upoeqWNDo9k_A	2022-08-11
1	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	Make reservation on weekend	2013-01- 27	0	CxDOIDnH8gp9KXzpBHJYXw	2022-08-11
2	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	Great place for couple has \$7.99 dish	2013-01- 27	0	CxDOIDnH8gp9KXzpBHJYXw	2022-08-11
3	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	King of bbq pork for \$22	2013-01- 27	0	CxDOIDnH8gp9KXzpBHJYXw	2022-08-11
4	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	Their lunch combos for small groups is a decen	2013-01- 29	0	Tc3GAQdAfOW542ROdyCZPg	2022-08-11
5	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	Make sure to request the delicious house soup	2015-01- 04	0	mFwRTTDW0Yr-rFkTF2cFsw	2022-08-11
6	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	\$7.50 lunch special, dish of rice\noodles wit	2017-01- 15	0	0cUzu82KJiE5_xZA0lu3ZQ	2022-08-11
7	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	\$5 lunch special	2014-07- 11	0	2oMkzQcRL7-d7URt3Xo_Xg	2022-08-11
8	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	\$6 lunch special. A lot of selection on the lu	2015-02- 19	0	3yMtpQ_wV4ZGg6E69uE1PQ	2022-08-11
9	-6MefnULPED_I942VcFNA	-6MefnULPED_I942VcFNA	BBQ pork is sold out early on Saturday	2013-03- 23	0	EiP10Fgs-XGcKZux00KWIA	2022-08-11

To clean data for and load RestaurantAttributes table, we developed a function takes an input value of the restaurants as a dataframe and performs the following tasks: import data from yelp_business_attributes.csv, correct issue with column naming (all columns after business_id were shifted 1 left), filtered to only include restaurants in data set. For data cleansing we applied the following rules: for numeric categories we convert "Na" to 0, for string categories we convert "Na" to "no", for boolean columns we convert "Na", Null, 0, and "False" to False; and convert "True" and 1 to True. Also, we applied filters and geocode cleaning algorithms identified in EDA phase, filtered to Mexican and Tex Mex restaurants only to limit API calls, convert address fields to a full address string to be used as an url input parameter, apply function to rows in dataframe, and output to csv file for use in BI (Tableau dashboards). Next, we dropped columns with only one value since they are not meaningful. Finally, we wrote to CSV file for BI use, tagged rows with a "change_date" value, and write data to the RestaurantAttributes table in SQLite database.

```
# Run RestaurantAttributes ETL
etl_restaurant_attributes(business_df)

# Validate success
verify_inserts('RestaurantAttributes')
```

business_id TEXT change_date DATE ByAppointmentOnly BOOLEAN BusinessAcceptsCreditCards BOOLEAN BusinessParking_garage BOOLEAN BusinessParking_street BOOLEAN BusinessParking_validated BOOLEAN BusinessParking_lot BOOLEAN BusinessParking_valet BOOLEAN RestaurantsPriceRange2 TEXT GoodForKids BOOLEAN WheelchairAccessible BOOLEAN BikeParking BOOLEAN Alcohol TEXT HasTV BOOLEAN NoiseLevel TEXT RestaurantsAttire TEXT Music_dj BOOLEAN Music_karaoke BOOLEAN RestaurantsGoodForGroups BOOLEAN Caters BOOLEAN WiFi TEXT RestaurantsReservations BOOLEAN RestaurantsTakeOut BOOLEAN HappyHour BOOLEAN GoodForDancing BOOLEAN RestaurantsTableService BOOLEAN OutdoorSeating BOOLEAN RestaurantsDelivery BOOLEAN BestNights monday BOOLEAN BestNights_friday BOOLEAN BestNights_wednesday BOOLEAN BestNights_thursday BOOLEAN BestNights_sunday BOOLEAN BestNights_saturday BOOLEAN GoodForMeal_dessert BOOLEAN GoodForMeal_latenight BOOLEAN GoodForMeal_lunch BOOLEAN GoodForMeal_dinner BOOLEAN GoodForMeal_breakfast BOOLEAN GoodForMeal brunch BOOLEAN CoatCheck BOOLEAN Smoking TEXT DriveThru BOOLEAN BYOBCorkage TEXT DietaryRestrictions_dairy-free BOOLEAN DietaryRestrictions_gluten-free BOOLEAN DietaryRestrictions_vegan BOOLEAN DietaryRestrictions_kosher BOOLEAN DietaryRestrictions_halal BOOLEAN DietaryRestrictions_soy-free BOOLEAN DietaryRestrictions_vegetarian BOOLEAN

Row Count: 13848

	business_id	change_date	ByAppointmentOnly	BusinessAcceptsCreditCards	BusinessParking_garage	BusinessParking_street	BusinessP
0	XOSRcvtaKc_Q5H1SAzN20A	2022-08-11	False	False	False	False	
1	I09JfMeQ6ynYs5MCJtrcmQ	2022-08-11	False	False	False	True	
2	gAy4LYpsScrj8POnCW6btQ	2022-08-11	False	False	False	False	
3	1_3nOM7s9WqnJWTNu2-i8Q	2022-08-11	False	False	False	False	
4	BnuzcebyB1AfxH0kjNWqSg	2022-08-11	False	False	False	False	
5	EJFdWX908N8Yc2XG0Lky8A	2022-08-11	False	False	False	False	
6	F0fEKpTk7gAmuSFI0KW1eQ	2022-08-11	False	False	False	False	
7	HAX1zec191t7QkT2sBZ76A	2022-08-11	False	False	False	False	
8	1nhf9BPXOBFBkbRkpsFaxA	2022-08-11	False	False	False	False	
9	T5CdfrZWw-uW9Y5L_sddqQ	2022-08-11	False	False	False	False	

We developed a number of helper functions to aid in this process. These are small functions that represent tasks that needed to be performed multiple times, and helped reduce the repetition in our code. We started with a validation function that expects an input parameter

table name, prints a column list with data types and row counts from SQLite table using sqlalchemy ORM query, and returns a dataframe containing the first 10 rows in the table using Pandas query. Its role is to help us visually validate the data processing is working as expected. Our Geocoding function required us to pip install -U googlemaps. Its input parameter is the address as a formatted string, and it makes the API call and returns a list containing latitude and longitude. Our date type conversion function converts string to date, and expects an input parameter of a date with string data type and outputs values cast to date data type. Our string to boolean type conversion function expects input parameters of a dataframe and column name, and maps a set of strings to boolean values. For a change date column, our function expects an input parameter of a dataframe, and outputs the dataframe with a column "change date" appended with the value set to the current date. To aid in dimensionality reduction, we developed a function expecting inputs of a search string and dataframe that generates a new dimension table based on column names matching the search string: the new table's attributes are id and description; description is derived based on column names that match the input search string. Another function applies a new Id and Type column containing encoded values derived from similar sets of boolean flags to create categories that are easier to display in BI. Finally, we developed an encoding function that expects inputs of column name and dataframe and generates a new dimension table based on input column name. The table's attributes are id and description where description contains distinct values of the input column, applies a new Id column containing encoded values, and returns the updated dataframe.

There are a number of things where, if given additional time, we could do better. For example, we would build the attributes table without string versions for the categories so that the table functions as a standard relational table. This was done so BI queries could use a flat table, but is not best practice. Another example is that there is a bug in the reduce_dims function where it isn't stripping the search string from the description correctly. This leads to values like "BusinessParkingTypevalet" and "BusinessParkingTypelot" rather than having clean categorical labels like "valet" or "lot" in the BusinessParkingTyp table and takes more storage space on the data tier and display space on the screen than is required. As another example, we would like to have spent more time on address cleansing to correct typos. For example we see Phoenix spelled as Pheonix or listed as Phoenix, AZ, which affects the functionality of our dropdown menus. Finally, and perhaps most importantly, it would be good to find supplementary data or additional data focused on the restaurant industry to create a more balanced data set for machine learning.

Machine Learning

Our goal with our machine learning project was to use restaurant attributes to predict how a restaurant would be rated by customers. After testing multiple models, we saw that all the models were extremely overfit in the training phase, and XGBoost and RandomForest were the worst in that regard. All models yielded accuracy scores around 40-50% in the testing set. Also, in all models we observed that 4-star ratings had the highest F1 scores around 60-65%, 1 and 5-star reviews were the lowest with F1 scores between 0 and 3%.

In the end we dropped all attributes except the 9 most complete attributes and re-trained the model, which yielded very similar results. Finally, we selected the LightGBM model as our final model as it seems least overfit and performed similarly to the others.

XGBoost example:

```
# Scale pos weight formula = (row count - count of least po
# XGBoost Regression
xgb = XGBClassifier(random_state=42, scale_pos_weight=15)
xgb = evaluateModel(xgb, X_train, y_train, X_test, y_test)
TRAINING SET
             precision
                        recall f1-score support
          2
                  0.00
                          0.00
                                    0.00
                                               665
          3
                  0.56
                          0.15
                                    0.24
                                              3326
                                 0.67
0.01
                  0.52
                          0.96
                                              5081
          5
                                             1272
                 0.88
                          0.01
   accuracy
                                    0.52
                                            10344
                 0.49
                          0.28
                                             10344
                                   0.23
   macro avg
                                 0.41
                 0.54
                                            10344
weighted avg
                          0.52
   0 100 565
                   01
    0 515 2810
                   1]
    0 227 4854
                   øī
    0 73 1192
                   711
Testing SET
             precision
                         recall f1-score support
                  0.00
                           0.00
                                    0.00
                  0.39
                                    0.17
                                              1109
          4
                  0.50
                          0.93
                                    0.65
                                              1694
                                   0.00
                                              424
    accuracy
                                    0.49
                                              3449
   macro avg
                 0.22
                          0.26
                                    0.20
                                              3449
weighted avg
                  0.37
                           0.49
                                    0.37
                                              3449
```

LightGBM example:

```
# LGBMClassifier Regression
lgb = LGBMClassifier(random state=42)
lgb = evaluateModel(lgb, X_train, y_train, X_test, y_test)
TRAINING SET
             precision recall f1-score support
                0.76 0.06
          2
                                   0.12
                                               665
          3
                0.61 0.40 0.48
                                             3326
          4
                 0.58
0.75
                          0.90 0.70
                                              5081
          5
                          0.08
                                    0.15
                                              1272
                                           10344
   accuracy
                                   0.59
  macro avg 0.67 0.36 0.36 10344
ighted avg 0.62 0.59 0.53 10344
weighted avg
[[ 42 196 421 6]
    6 1325 1981 14]
5 477 4584 15]
    2 181 983 106]]
Testing SET
             precision
                        recall f1-score support
                                   0.03
          2
                 0.29
                        0.02
                                              222
                0.37 0.24 0.29
0.51 0.80 0.62
0.22 0.03 0.05
          3
                                              1109
          4
                                              1694
                                              424
                                    0.48
                                              3449
   accuracy
macro avg 0.35 0.27 0.25
weighted avg 0.41 0.48 0.41
                                              3449
                                              3449
```

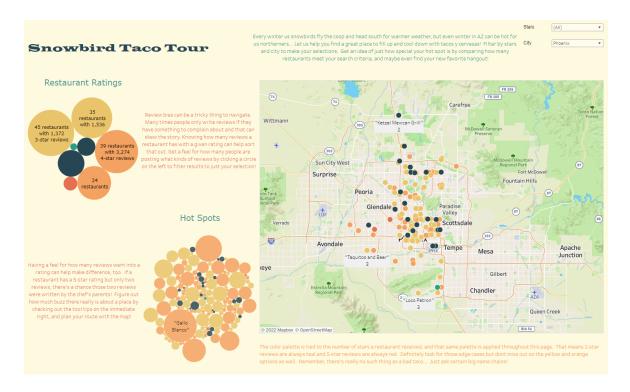
Our primary issue with regard to machine learning was extreme imbalance due to data completeness. Most business attributes have values like Na, No, or None so our models have weak prediction power. Secondarily we had technical issues related to bugs in recent versions of XGBoost. These issues are documented as follows:

- https://stackoverflow.com/questions/71996617/invalid-classes-inferred-from-unique-values-of-y-expected-0-1-2-3-4-5-qot/72084851#72084851
 - Resolved by down-grading XGBoost version.
- https://github.com/dmlc/xqboost/issues/2334
 - We didn't resolve this issue as we realized the LightGBM model performed slightly better anyway.

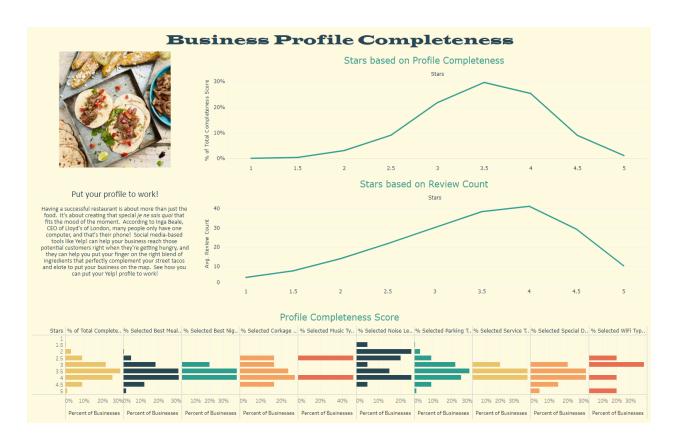
Our most important lesson is that machine learning is a voracious beast when it comes to consuming data. To train an effective model, data must be complete and at volume. Check out our predictions for how a restaurant in some hot destinations might perform below!

Tableau

We identified a couple inspiration dashboards on Tableau Public, and we attempted to use certain design elements from them such as using a unified and cohesive color palette, page organization and use of whitespace.



Our first dashboard is customer focused, with the goal of making it easy to find a great locale for a tasty south-of-the-border style plate of goodness. Our dashboard is organized to be read in two columns. The left panel groups restaurants by how many stars they've received in the top graph, and in the bottom left panel lets them filter down to a single "hot spot" if they desire. Clicking the dots applies a consistent filter across the board, so to see all 4-star reviews the user clicks a dot on the top panel and all 4-star reviews are revealed on the map as well as in the "hot spots" panel on the bottom left. From there, the user can pick a restaurant based on location on the map or they can further explore options on the Hot Spots pane. In Hot Spots, the dot is sized based on the count of reviews that contributed to that restaurant's scoring.



Our second dashboard is business focused. More customers in the door means more customers to leave reviews. The better the reviews of course the more customers will come in, but that doesn't appear to be the end of the story. Here, we highlight how important a complete profile is to businesses by comparing how complete a business profile is to how many reviews they receive. Correlation does not equal causation, of course, but it seems likely that the users visiting these establishments are doing so based on the information they can find on their phones, and that they're using the same channels to share their experiences. In this digital age, savvy business owners will tap into this information to communicate with potential customers, and they'll use their feedback to respond to changing trends.

Web Design

The color palette for the webapp and tableau dashboards was inspired by the colors of popular fiestas like Cinco de Mayo and Dia de los Muertos. We customized a popular color palette to translate our inspiration into something both easy on the eyes and with enough variety to be able to create a good sense of hierarchy.

Another way we added visual hierarchy to the webapp was by using Google fonts. For titles and major headings we used Frijole, for menus and subheadings Barrio, and for paragraphs Darker



Grotesque. These three fonts really brought the fiesta theme to life and make it easier for users to navigate each webpage.

The UI for our webpage was loosely inspired by a webflow template: Delice - Restaurant Website Template, however we decided to not use a template for the HTML or CSS. Bootstraps, W3Schools and Stack Overflow were referenced often when we had roadblocks. We also used an AOS plugin to add scrolling animations to make information on our webpages more easy to navigate.

For site navigation, we used a fixed top navigation bar so users can navigate to and from other pages of the site without having to scroll up to the top. Our webapp ended up having seven pages, so to prevent the navigation bar from looking too busy we added a "Project" drop down menu. If users are interested in interacting with the different features of our web app they can access them through the drop down, while users just interested in the basic concepts (the executive summary or information about the developers) aren't bogged down by the clutter. When a user selects a webpage from the dropdown the jumbotron text changes to show the navigation level of the active web page.

The home page features a summary of the project. There is a written analysis page with links to the data and our github page. The about me page contains basic information about the developers of this project. The tableau pages (Snowbird Taco Tour (Tableau), Business Profile Completeness(Tableau)) were embedded into their respective web pages. We opted to just embed the dashboards into the webpage versus using the API and spent our time working on functionality in the machine learning and SQL sections.

The machine learning and data engineering pages have a side navigation that includes the filters for the user to choose from. Our model takes in latitudes and longitudes as one of the features, but most users don't just know latitudes and longitudes off the top of their head. To improve the user experience we used interesting locations and had the model use their latitudes and longitudes for the model. On the machine learning page when the user clicks the "make prediction" button after choosing their filters the model predicts a rating. The rating and the probability of its accuracy are displayed on an image that is dynamically chosen based on the



location the user chose.

The data engineering page includes a plotly bubble chart of the average ratings of restaurants that shows the distribution of the ratings based on the attributes the user filtered by. There is also a table of the restaurant information based on the guery.



Conclusion

Through this capstone project from concept to reality, we learned that not everything will line up perfectly but it was the journey and overcoming the hurdles that brought our Snow Bird Tour to life. Our main limitation was that we did not have as complete data for our original goal of the Great North America Taco Tour as we thought, and even as we adjusted to the Snow Bird Tour, we still stumbled into unanticipated problems. With some creative thinking we overcame many of the limitations of data. We believe that as time and more data is collected through Yelp and other review platforms, the future work on this project will be able to showcase as we originally intended it to be. In addition to being able to showcase our vision in the future, our second dashboard as mentioned previously shows there is a correlation between the business profile completeness and higher stars rating, which implies their getting more traffic through the door and could bring more visibility to future customers for these restaurants. So, to all restaurants out there selling tacos and burritos, complete your online profile and make it a hotspot destination for all on a taco tour!

Works Cited:

Data:

https://www.kaggle.com/code/jagangupta/what-s-in-a-review-yelp-ratings-eda/data Website Inspiration:

https://webflow.com/templates/html/delice-restaurant-website-template

Fiesta image:

https://tampabaydatenightguide.com/wp-content/uploads/sites/2/2019/04/House-of-Mexico-Dancers_Richard-Benton_2014-e1555451057268.jpg

Coolors Palette:

https://coolors.co/264653-2a9d8f-fefae0-efb366-f4a261-e76f51

Fonts:

https://fonts.google.com/specimen/Frijole?query=frij

https://fonts.google.com/specimen/Barrio?query=barrio

https://fonts.google.com/specimen/Darker+Grotesque?query=darker

Scroll Animation:

https://github.com/michalsnik/aos

Side nav:

https://www.w3schools.com/howto/howto is sidenav.asp

Dynamically change bg image

https://sebhastian.com/javascript-change-background-image/

Search selection box:

https://makitweb.com/make-a-dropdown-with-search-box-using-jquery/