Restaurants
Cuisines
Outlets

RESTAURANT
DATA ANALYSIS

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OVERVIEW

- As a Data Analyst Intern at Cognifyz Technologies, I worked on Two tasks of Level-1 & Level-2.
- Extracted the Restaurants' dataset to explore more data numbers and patterns region wise.
- For data analysis and visualization, I used Python to found valuable insights.

ABOUT THE PROJECT

To contribute to the success of businesses by utilizing advanced data analysis, specifically focusing on Restaurants' data, to provide valuable insights, sales performance and cuisines trends.

Level 1

Task 1

Cognifyz
Where Data Meets Intelligence

Task: Top Cuisines

Determine the top three most common cuisines in the dataset.

Calculate the percentage of restaurants that serve each of the top cuisines.

TOP CUISINES

Top three cuisines

North Indian: 2992

Chinese: 1880

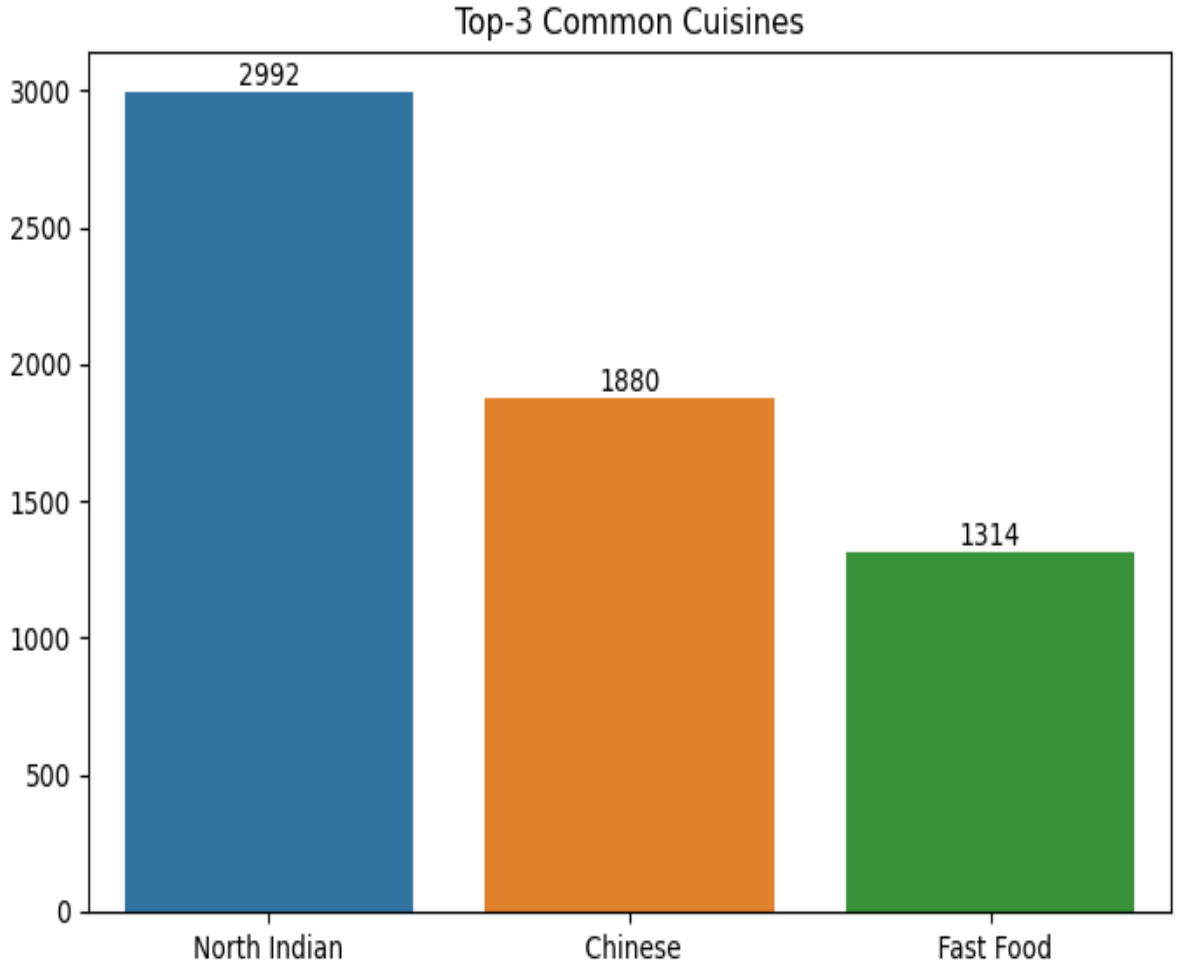
Fast Food: 1314

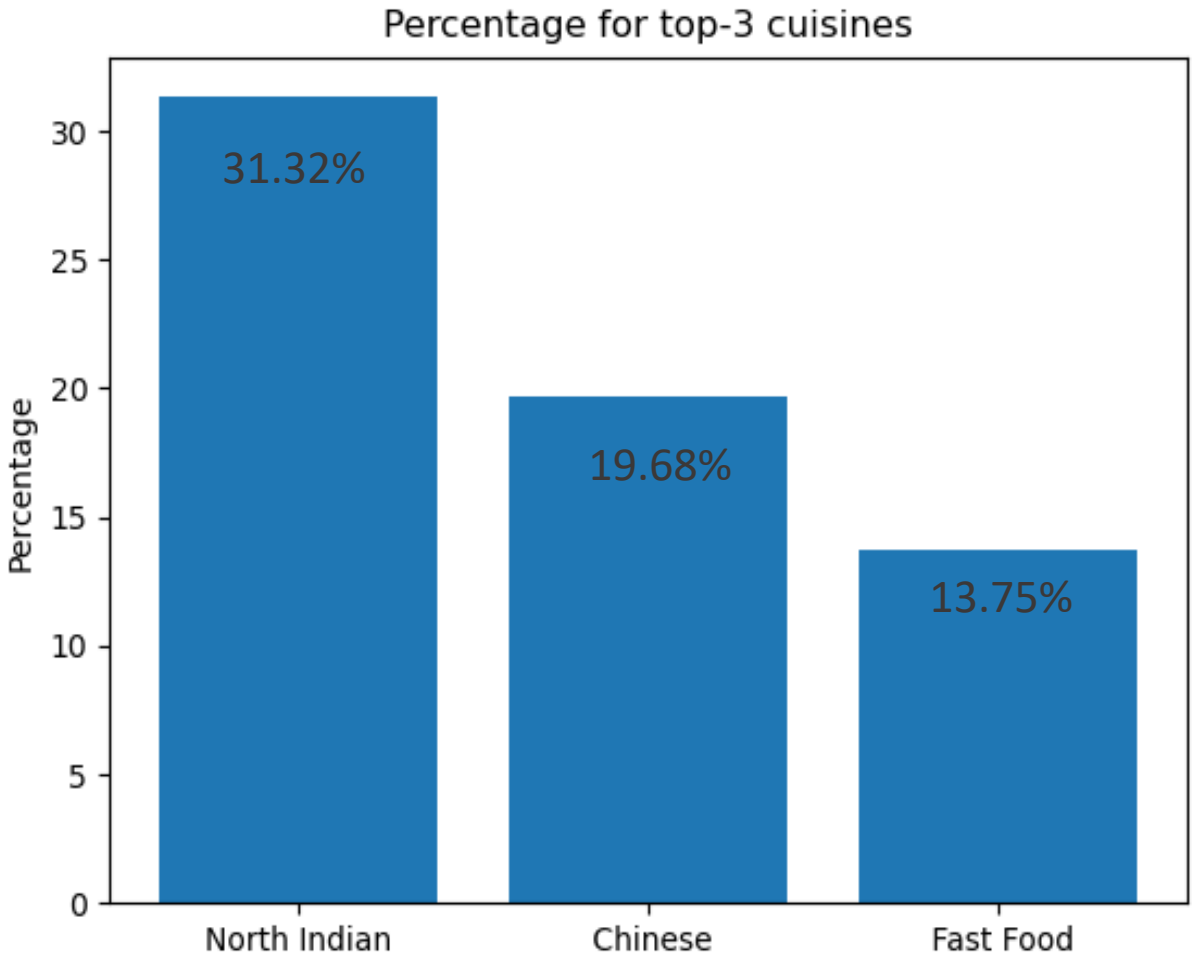
PERCENTAGE OF RESTAURANTS FOR TOP-3 CUISINES

North Indian: 31.32%

Chinese: 19.68%

Fast Food: 13.75%


Top-3 Common Cuisines
2992
1880
1314
3000
2500
2000
1500
1000
500
0
North Indian
Chinese
Fast Food


Percentage for top-3 cuisines
Percentage
31.32%
19.68%
13.75%
30
25
20
15
10
5
0
North Indian
Chinese
Fast Food

Level 1

Task 2

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Task: City Analysis

Identify the city with the highest number of restaurants in the dataset.

Calculate the average rating for restaurants in each city.

Determine the city with the highest average rating.

CITY ANALYSIS

- City with the Highest number of Restaurants : New Delhi with 5473 Restaurants.
- Highest Avg Rating : 4.9

Level 1

Task 3

Cognifyz
Where Data Meets Intelligence

Task: Price Range Distribution

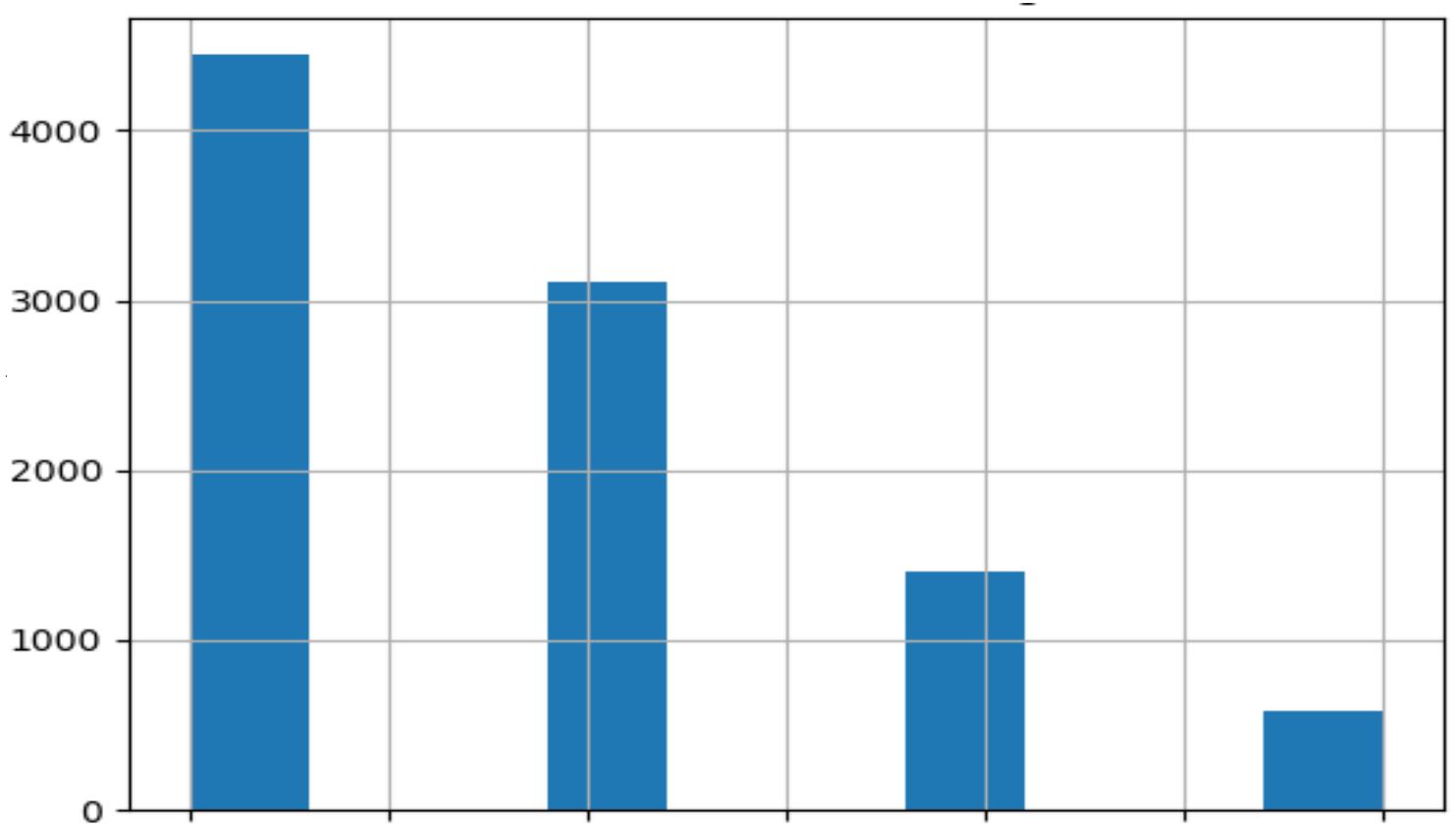
Create a histogram or bar chart to visualize the distribution of price ranges among the restaurants.

Calculate the percentage of restaurants in each price range category.

PRICE RANGE DISTRIBUTION

The Percentage of Restaurants in each Price Range Category

PRICE RANGE	PERCENTAGE
4444	46.53%
3113	32.59%
1408	14.7%
586	6.14%



Level 1

Task 4

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Where Data Meets Intelligence

Task: Online Delivery

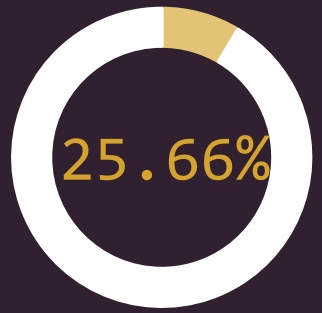
Determine the percentage of restaurants that offer online delivery.

Compare the average ratings of restaurants with and without online delivery.

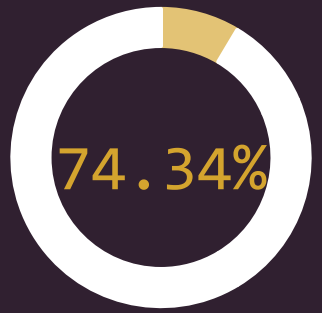
FINDINGS

RESTAURANTS WITH ONLINE DELIVERY

RESTAURANTS WITH NO-ONLINE DELIVERY



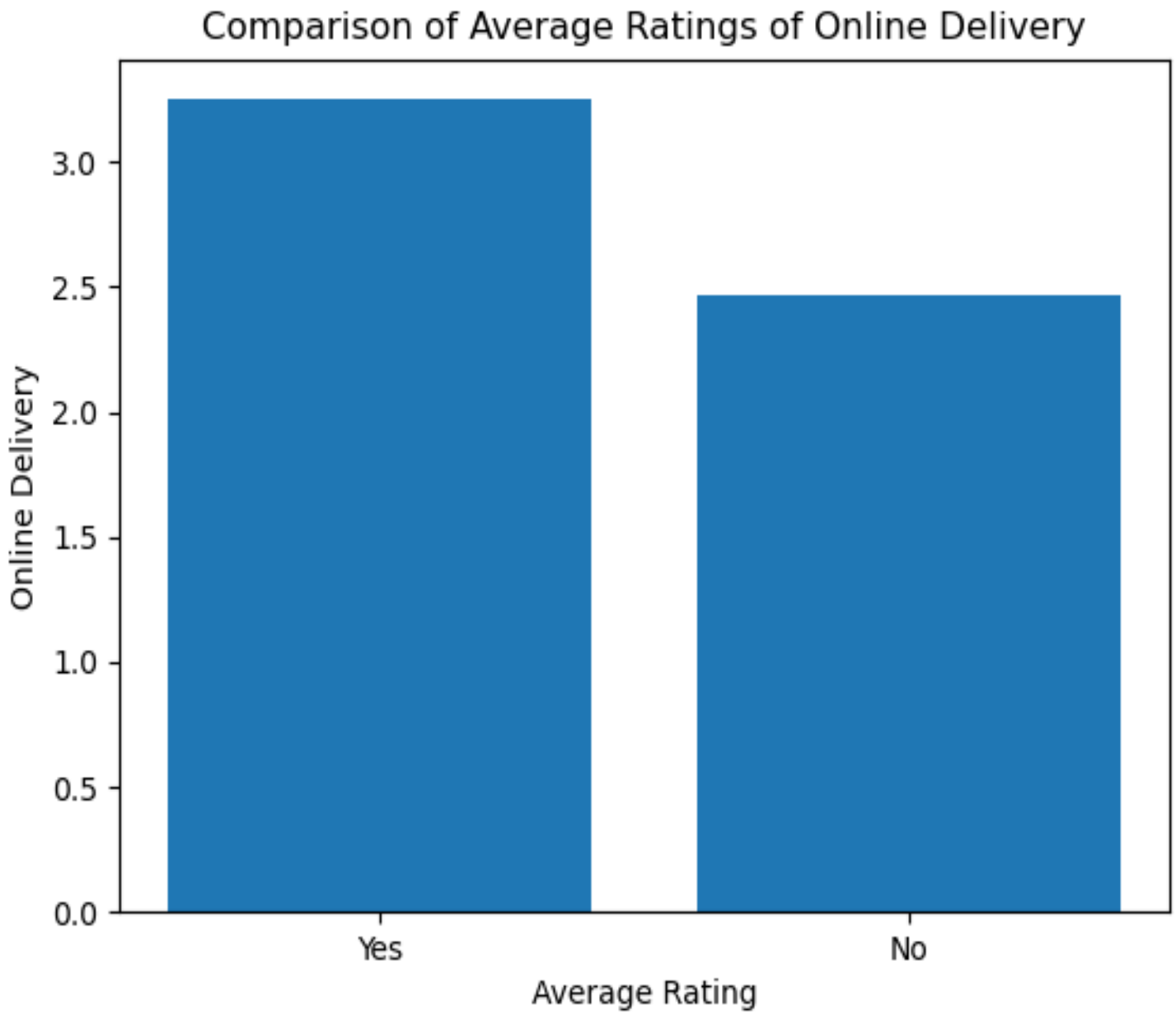
PERCENTAGE OF ONLINE DELIVERY



PERCENTAGE OF NO-ONLINE DELIVERY

AVERAGE RATING WITH ONLINE DELIVERY

AVERAGE RATING WITH NO-ONLINE DELIVERY


Comparison of Average Ratings of Online Delivery
Online Delivery
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Yes
No
Average Rating

Level 2

Task 1

Cognifyz
Where Data Meets Intelligence

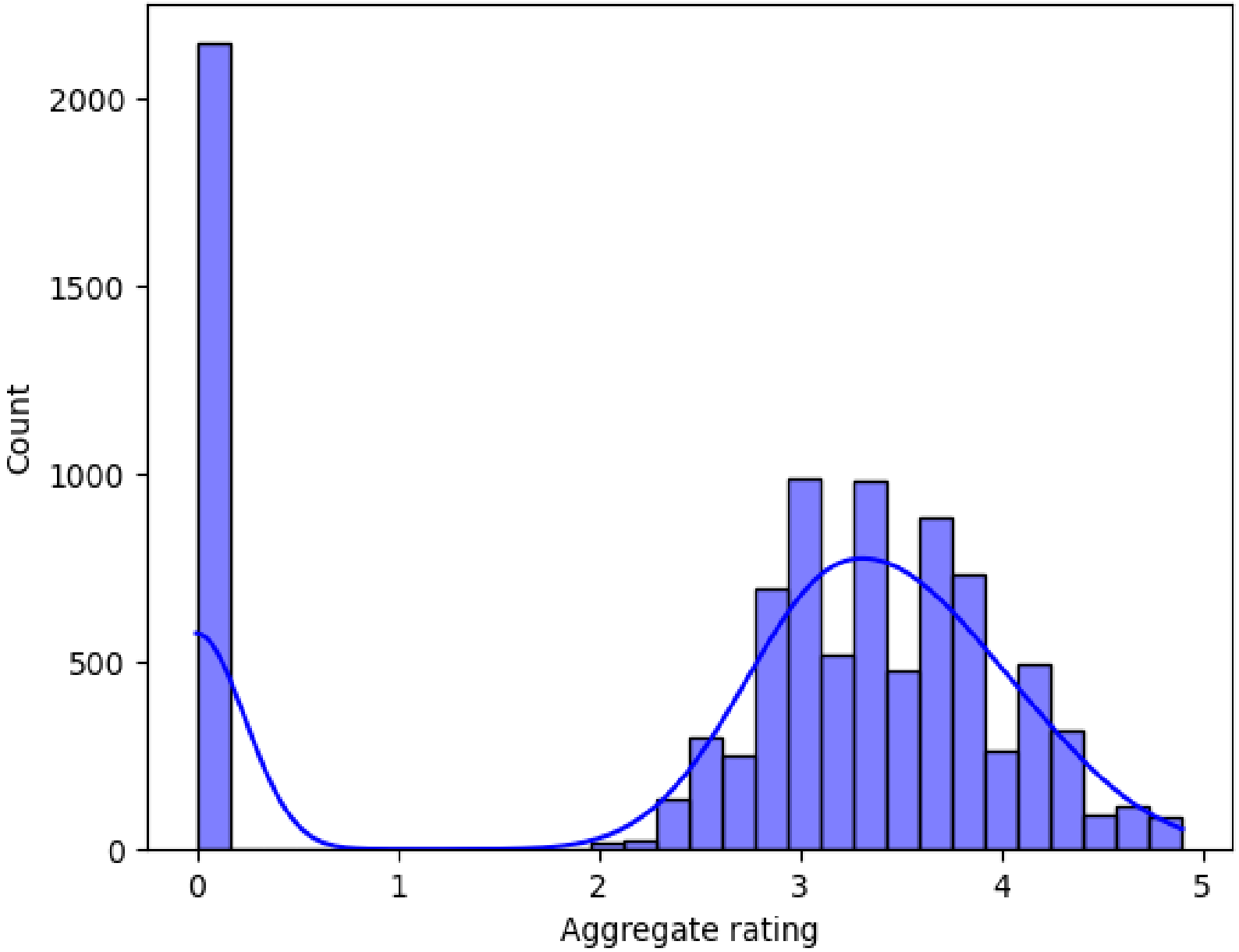
Task: Restaurant Ratings

Analyze the distribution of aggregate ratings and determine the most common rating range.

Calculate the average number of votes received by restaurants.

DATA NUMBERS & INSIGHTS

AGGREGATE RATINGS	TOTAL	RATING TEXT
0.0	2148	NOT RATED
1.8-2.4	186	POOR
2.5-3.4	3737	AVERAGE
3.5-3.9	2100	GOOD
4.0-4.4	1079	VERY GOOD
4.5-5.0	301	EXCELLENT


2000
1500
1000
500
0
Count
0
1
2
3
4
5
Aggregate rating

Level 2

Task 2

Cognifyz
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Task: Cuisine Combination

Identify the most common combinations of cuisines in the dataset.

Determine if certain cuisine combinations tend to have higher ratings.

Top-5 Common Combinations of Cuisines

CUISINES	RATING
Italian, Deli	4.9
Hawaiian, Seafood	4.9
American, Sandwich, Tea	4.9
Continental, Indian	4.9
European, Asian, Indian	4.9

Level 2

Task 3

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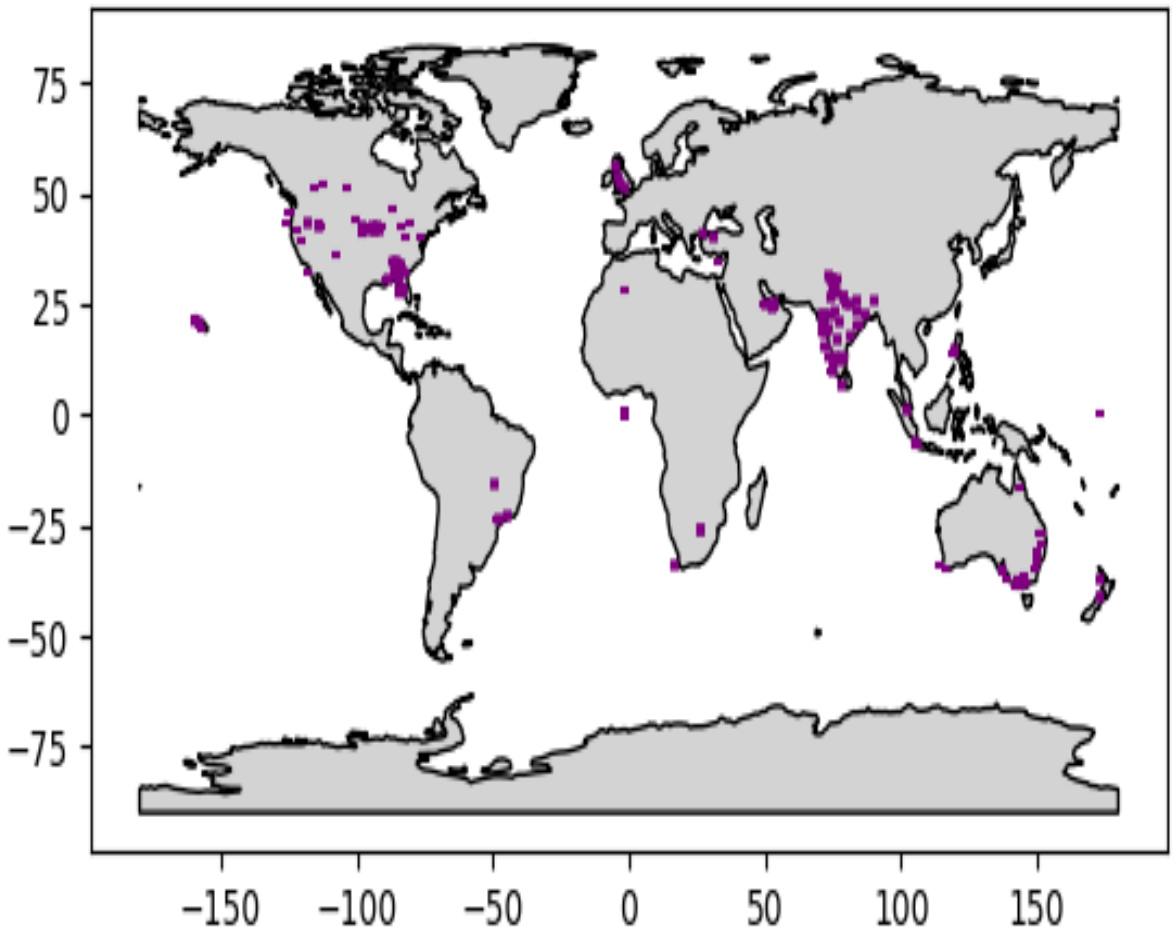
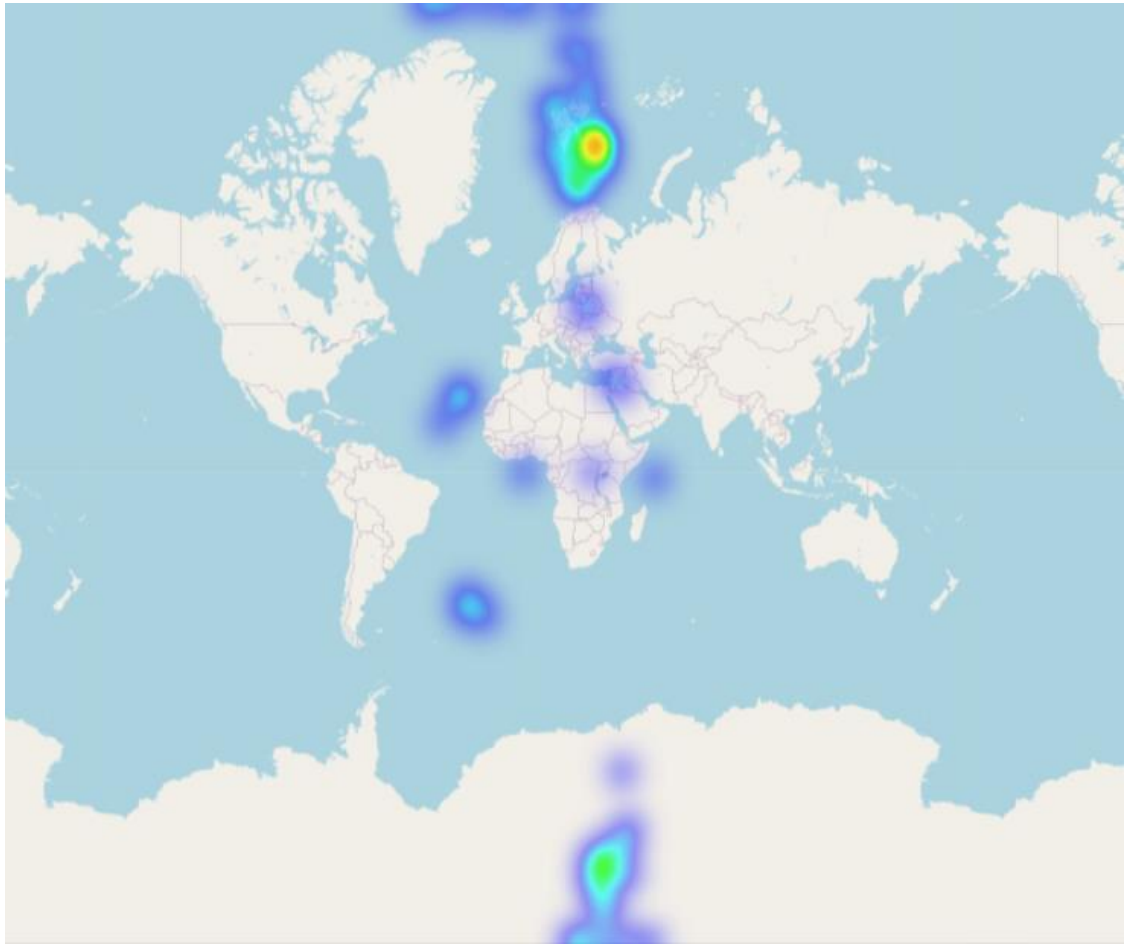
Where Data Meets Intelligence

Task: Geographic Analysis

Plot the locations of restaurants on a map using longitude and latitude coordinates.

Identify any patterns or clusters of restaurants in specific areas.


75
50
25
0
−25
−50
−75
−150
−100
−50
0
50
100
150



Level 2

Task 4

Cognifyz
Where Data Meets Intelligence

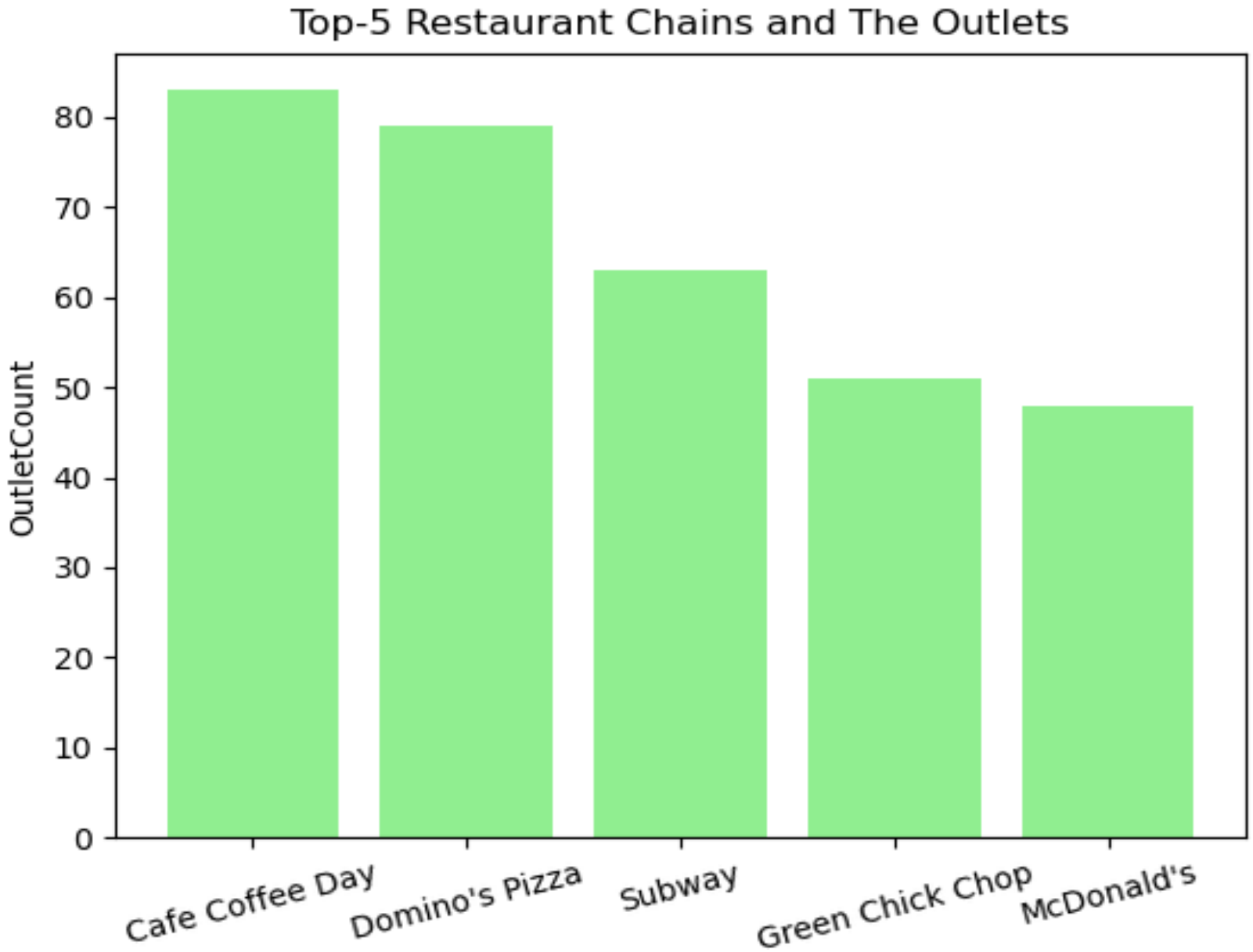
Task: Restaurant Chains

Identify if there are any restaurant chains present in the dataset.

Analyze the ratings and popularity of different restaurant chains.

RESTAURANT CHAINS

RESTAURANT NAME	OUTLETS
Cafe Coffee Day	83
Domino's Pizza	79
Subway	63
Green Chick Chop	51
McDonald's	48


Top-5 Restaurant Chains and The Outlets
OutletCount
0
10
20
30
40
50
60
70
80
Cafe Coffee Day
Domino's Pizza
Subway
Green Chick Chop
McDonald's

TOP-5 RESTAURANTS WITH RATING & POPULARITY

RESTAURANT NAME	RATING	RESTAURANT NAME	VOTES
Restaurant Mosaic @ The Orient	4.9	Barbeque Nation	28142
Ministry of Crab	4.9	AB's - Absolute Barbecues	13400
Miann	4.9	Toit	10934
Shorts Burger and Shine	4.9	Big Chill	10853
Milse	4.9	Farzi Cafe	10098

THANK YOU

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