

# Spending Habits

An Exploratory Data Analysis Project

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#### Introduction

DoorDash is a food delivery service that has become increasingly popular in recent years, particularly during the COVID-19 pandemic when more people have been ordering food for delivery instead of dining in at restaurants. As a DoorDash customer, I am interested in understanding my own spending habits on the platform. In this exploratory data analysis, I will analyze my DoorDash transaction data to gain insights into my personal spending habits, including average order size, frequency of orders, and most commonly ordered items.



#### **Problem Statement**

I use DoorDash ALOT for ordering food, groceries, and other miscellaneous items. Sometimes I would wonder exactly how much I spent over the course of a certain time on this particular delivery app.

The objective of this exploratory analysis is to investigate my spending patterns on the DoorDash food delivery platform between July 2019 and April 2021. By analyzing various forms of information such as time of day, item type, order size, and total dollar amount per order, I aim to understand the factors that influence my spending decisions and identify any trends that exist in the data.

#### **Data Source**

The source of data used for this analysis is the CSV file I downloaded from my DoorDash account. It contains information such as the item(s) I ordered and their particular category, the store name, the unit price, the quantity, the order date/time and delivery time, and the delivery address.

Because this dataset had some of my personal information I made sure it was clean before using it for this analysis.

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	А	В	С	D	E	F	G	Н	
1	ITEM	CATEGORY	STORE_NAME	UNIT_PRICE	QUANTITY	SUBTOTAL	CREATED_AT	DELIVERY_TIME	DEL
	16 Bone-In Wings Combo	Combo Meals	It's Just Wings	18		1 18	2021-04-05 1:35:17	2021-04-05 2:46:3	35 123€
	Hash Browns	Bakery & Snacks	Dunkin'	0.89		1 0.89	2021-03-07 14:48:33	2021-03-07 15:35:5	3 934
1	Muffins	Bakery & Snacks	Dunkin'	1.79		1 1.79	2021-03-07 14:48:33	2021-03-07 15:35:5	3 934
5	Macchiato	Hot Drinks	Dunkin'	4.59		1 4.59	2021-03-07 14:48:32	2021-03-07 15:35:5	3 934
ò	Beyond Sausage® Breakfast Sandwich	Sandwiches & Wraps	Dunkin'	4.99		1 4.99	2021-03-07 14:48:32	2021-03-07 15:35:5	3 934
7	Turkey Sausage Egg and Cheese Breakfast Sandwich	Sandwiches & Wraps	Dunkin'	3.89		1 3.89	2021-03-07 14:48:32	2021-03-07 15:35:5	3 934
В	Turkey Sausage and Cheese Wake-Up Wrap®	Sandwiches & Wraps	Dunkin' & Baskin-Robbins	1.99		1 1.99	2020-10-12 20:55:19	2020-10-12 21:40:4	13 5755
	Hot Coffee	Hot Drinks	Dunkin' & Baskin-Robbins	2.58		1 2.58	2020-10-12 20:55:19	2020-10-12 21:40:4	13 5755
0	French Fries	Fries & Sides	Inactive Store - DO NOT EDIT	2.07		1 2.07	2020-10-11 21:00:33	2020-10-11 21:28:4	19 5755
11	Dave's	Hamburgers	Inactive Store - DO NOT EDIT	4.99		1 4.99	2020-10-11 21:00:33	2020-10-11 21:28:4	19 5755
2	Sub ONLY	Subs	American Deli	5.49		1 5.49	2020-10-10 20:42:54	2020-10-10 21:03:2	25 5755
3	Beyond Sausage® Breakfast Sandwich	Sandwiches & Wraps	Dunkin' & Baskin-Robbins	4.89		1 4.89	2020-10-07 21:13:06	2020-10-07 21:42:5	54 5755
4	Macchiato	Hot Drinks	Dunkin' & Baskin-Robbins	4.58		1 4.58	2020-10-07 21:13:05	2020-10-07 21:42:5	54 5755
5	Premium Manager's Special	Manager's Half Sandwich Special	Jason's Deli	9.89		1 9.89	2020-09-23 21:18:20	2020-09-23 22:11:1	10 5755
6	Beyond Sausage® Breakfast Sandwich	Sandwiches & Wraps	Dunkin' & Baskin-Robbins	5.89		1 5.89	2020-09-22 22:45:14	2020-09-22 23:17:3	88 5755
7	Macchiato	Hot Drinks	Dunkin' & Baskin-Robbins	4.58		1 4.58	2020-09-22 22:45:14	2020-09-22 23:17:3	38 5755
8	Macchiato	Hot Drinks	Dunkin' & Baskin-Robbins	4.58		1 4.58	2020-09-22 20:56:33	/N	5755
19	Beyond Sausage® Breakfast Sandwich	Sandwiches & Wraps	Dunkin' & Baskin-Robbins	5.89		1 5.89	2020-09-22 20:56:33	\N	5755
0	Cookies & Cream Milkshake	Treats	Chick-fil-A®	4.2		1 4.2	2020-09-16 0:55:13	2020-09-16 1:18:4	13 934
1	Mac & Cheese	Sides	Chick-fil-A®	3.3		1 3.3	2020-09-16 0:55:13	2020-09-16 1:18:4	13 934
2	Kale Crunch Side	Sides	Chick-fil-A®	2.55		1 2.55	2020-09-16 0:55:13	2020-09-16 1:18:4	13 934
3	Chick-fil-A Waffle Potato Fries®	Sides	Chick-fil-A®	2.55		1 2.55	2020-09-16 0:55:13	2020-09-16 1:18:4	13 934
4	Chick-fil-A® Deluxe Sandwich	Entrées	Chick-fil-A®	5.8		1 5.8	2020-09-16 0:55:13	2020-09-16 1:18:4	3 934

# **Case Study Questions (and Answers)**

1.) What is my average order size and spending amount?

By using the Spreadsheets function '=AVERAGE' I found that the average size of my orders was 1 item and the average price was \$6.24.

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A1	▼   f <sub>K</sub> ITEM											
	Α	В	C	D	Е	F						
1	ITEM	CATEGORY	STORE_NAME	QUANTITY	SUBTOTAL	CREATED_AT						
179	Veggie Burger Combo	Sandwich Combos	Wingit	2	17.98	2019-08-01 20:30:47						
180	Veggie Burger Combo	Sandwich Combos	Wingit	2	17.98	2019-08-01 19:06:21						
181	Create Your Own	Pizza	Papa John's Pizza	1	12.99	2019-08-01 0:53:02						
182	Lay's® Classic Chips	Sides	Subway	1	1.39	2019-08-01 0:02:50						
183	Veggie Delite® Footlong	Footlong Sandwiches	Subway	1	6.59	2019-08-01 0:02:37						
184	Veggie Burger Combo	Sandwich Combos	Wingit	2	17.98	2019-07-27 21:13:17						
185	Sprite	drinks	Wingit	1	1	2019-07-25 18:46:10						
186	Veggie Burger Combo	Sandwich Combos	Wingit	1	8.99	2019-07-25 18:45:45						
187	Chocolate Chip	Cookies	Subway	1	2.19	2019-07-24 2:17:56						
188	Lay's® Classic	Chips	Subway	2	3	2019-07-24 2:17:38						
189	Veggie Delite® (Footlong)	Main Menu	Subway	1	6.5	2019-07-24 2:16:19						
190	Veggie Delite® (Footlong)	Main Menu	Subway	1	6.5	2019-07-24 2:15:23						
191	Veggie Delite® (6")	Main Menu	Subway	1	5.25	2019-07-24 2:13:53						
192	2 pc Fish/ Veg rice	Fish	American Deli	1	11.69	2019-07-21 22:32:03						
193	Veggie Burger Combo	Sandwich Combos	Wingit	1	8.99	2019-07-20 16:49:38						
194	Box of Fries	Sides	Wingit	1	4.99	2019-07-20 2:24:36						
195												
196				1.15	6.24							

# **Case Study Questions (and Answers)**

2.) How does the time of day affect my spending patterns?

My average order time of day is 9PM so because I worked during the day in this time frame (2019 - 2021) I was ordering late dinners or snacks before bedtime.



# **Case Study Questions (and Answers)**

3.) How did the different cuisines and types of restaurants affect my spending?

The way different cuisines and types of restaurants affected my spending was clearly based on affordability and how quickly I could get my food, (especially since I was ordering around 9PM most of the time). My average cuisine was fast food, with Chick-Fil-A being the top restaurant choice for me between 2019 and 2021.



### **Conclusion**

In conclusion, this exploratory data analysis has provided valuable insights into my DoorDash spending habits between July 2019 and April 2021. By analyzing my transaction data, I was able to determine my average order size and spending amount, as well as how the time of day and different cuisines and types of restaurants affect my spending patterns.

I found that my average order time of day was 9PM, likely due to working during the day and ordering late dinners or snacks before bedtime. I also discovered that affordability and convenience were key factors in my decision-making when it comes to selecting restaurants and cuisines, with fast food being the most common cuisine I ordered and Chick-Fil-A being my top restaurant choice.

This analysis has provided me with valuable information that I can use to make more informed decisions about my DoorDash spending in the future. By being aware of my spending patterns and taking steps to reduce unnecessary expenses, I can save money and achieve my financial goals.