

DATATHON 2021

Carlos Arbonés
Pablo Gete
Sergi Martínez
Xavier Pacheco

Challenge 3

What restaurants in Barcelona would you recommend?

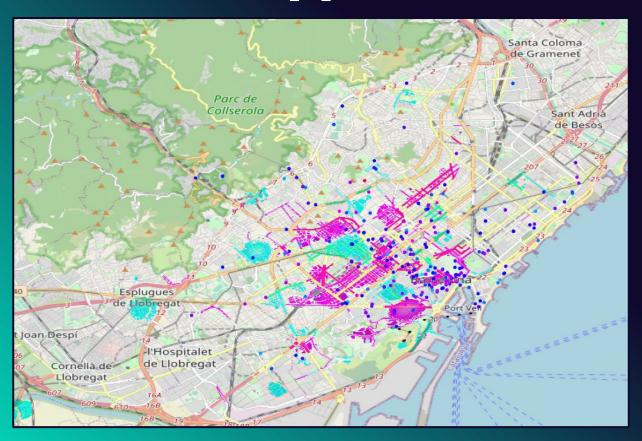




Objectives

- Try to process and filter part of the information that we had available.
- Sort restaurants according to their rating.
- Use graphics to make the datasets more comprehensible.

Our approach







Our methodology



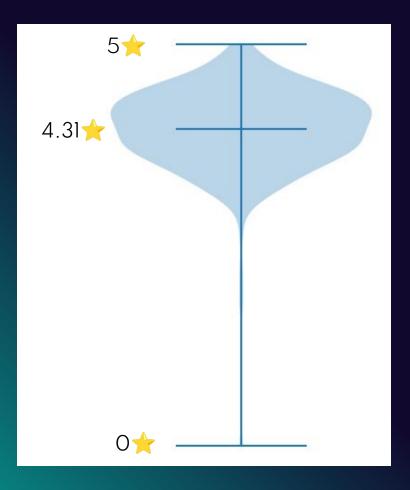
The starting point

[{"position": 20, "title": "The Capital Grille", "place id": "ChIJTXb60RdawokRPZZKPYmvWcU", "data id": "0x89c25a1741fa764d:0xc559af893d4a963d", "data cid": "14220590302372730429", "qps coordinates": {"latitude": 40.7081174, "longitude". -74.0102264}, "rating": 4.6, "reviews": 1157, "price": "\$\$\$\$", "type": "Fine dining restaurant", "address": "120 Broadway, New York, NY 10271", "open state": "Closed \u22c5 Opens 11:30AM", "hours": "Opens at 11:30 AM", "phone": "(212) 374-1811", "website": "https://www.thecapitalgrille.com/locations/ny/new-york/nyc-wall-street/8039?cmpid=br:tcg ag:ie ch:loc ca:TCGGMB sn:qmb qt:new-york-ny-8039 pl:locurl rd:1035", "description": "Upscale chophouse chain with clubby look. Outpost of the upscale steakhouse chain offers classic American fare & a clubby, refined setting.", "thumbnail": "https://lh5.qoogleusercontent.com/p/AF10ipNckk9j56zyqBsfLVCujjlqCVfSbdqvvinrkDhl=w92-h92-k-no", "reviews data": [{"user": ("name": "Dr Josh Brower", "link": "https://www.google.com/maps/contrib/1120446769414721778537hl=en-US&sa=X&ved=2ahUKEwjqkYfJiP zAhVnnuAKHcHZCqkQvvQBeqQIARAy", "thumbnail": "https://lb3.googleusercontent.com/a-/AOh14GgHaTF4PU2 MxHxRa9tTgfawOnipgaSX4r4M7d-H9k=s40-c-c0x000000000-cc-rp-mo-ba5-br100". "local guide": true, "reviews": 128. "photos": 837}. "rating": 2.0. "date": "a week ago". "snippet": "For now I would say stay away from this restaurant. I think they are having staffing issues effecting all levels of service. For a finer quality dining place this was poor. The older man that was the host when we entered was the high point for service. The server was a waitress and not particularly professional. To order took far to long, the cooking of the food took to long, and when it was delivered it wasn't to the right people with sides spread throughout the table instead of to the people who ordered them. The manager is a tall black man who definitely needs work on his customer service. The table next to us had a harsh discussion with him when he arrived unexpectedly to tell them their policy is to group all checks and include gratuity since they sat together although only half had food. He refused to split their check except some drinks but would not let them choose their gratuity. He kept saving he was in charge instead of being professional. I paid for our table and after waiting for 20 minutes for our check people started to leave. I had to leave the table and find the servers station. I explained people were leaving and asked how much longer it would be for my check. Instead of her answering he stood up and said just tell them it will be five more minutes. Everything could have been more professional. It was more of an experience for fast food than fine dining regarding service. I know everyone is having staffing issues, but when the meal is expensive the expectation is a higher level of service which is not found here right now. I'd say check back in six months.", "images": ["https://lh5.googleusercontent.com/p/AF1gipM779LaHnIEvOTcvoMooCzmM-ZocrDDhji2KmEK=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF1gipMCHoGIqCMd2n65KDQ1o0zoMp11sT 7APxJu0pN=w100-h100-p-n-k-no" "https://lh5.googleusercontent.com/p/AF10ipM2uxz-gyg000VmVdMGwAAFjSVGD1280PkEBAPc=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF10ipPGtgieLDM7668zgDNGf8ihmeZw WGwe24DCDV6=w100-h100-p-n-k-no"]}, {"user": {"name": "V5777" "link": "https://www.google.com/maps/contrib/1118643329129538272167hl=en-U5&sa=X&ved=2ahUKEwjqkYf3iP_zAhVnnuAKHcHZCgkQvvQBegQIARBE", "thumbnail": "https://lh3.googleusercontent.com/a-/A0h14Gi3rz-CpwJ7FPxS_fYZTmKznnpVD0Ca8R4USXUYTw=s40-cc0x00000000-cc-rp-mo-ba3-br100", "local quide": true, "reviews": 55, "photos": 24}, "rating": 5.0, "date": "a week ago", "snippet": "Thoroughly enjoyed my wife s birthday at Capital Grille Broadway tonight Oct 21 2021\udd83c\udd83c\udd82 . We were served by Michael who was very professional, personable, and made great suggestions as we were unsure which seafood to select for main dishes. The sushi grade tuna dinner was one of the best I've had and the Seabass was quite delicious.. Michael checked on us frequently to make sure we were content. The grille hostess welcomed my wife with a Happy Birthday when being seated. Michael surprised us with a complementary happy birthday dessert for my wife with the words Happy Birthday in chocolate. It was a great evening thanks to Michael and The GRILLE!!!". "images": ["https://lh5.googleusercontent.com/p/AF10ipN kRJm5HTkg5gh2735cBm-9RKeuRh8W8ugwwiw=w100-h100-p-n-k-no"l}. {"user": {"name": "Sufei Zhao". "link": "https://www.google.com/maps/contrib/1135120068328114323827hl=en-US&sa=X&ved=2ahUKEwigkYfjiP_zahVnnuAKHcHZCgQOvvOBeg0IARBT", "thumbnail": "https://lh3.google.sercontent.com/a-/A0h146igeJCgcrm5LVveHpB7bzGuihKMDKWx30ighOw5Y=s40-cc0x00000000-cc-rp-mo-oba5-br100", "local quide": true, "reviews": 129, "photos" attentive. But the food is just average. Tuna tartare was good: everything else was mediocre. For a high end restaurant. I would expect better guality butter for the bread bowl as well. You can go for the experience, but we won't be going back for food.". "likes": 1, "images": ["https://lh5.googleusercontent.com/p/AF1QipP76wb1T0rDGX6HdDh14Iz4d9CMGy9PYXmF0VpD=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF1QipPkdixumFkiYHwJXbXdZyQDLjCfZdDbxJlP4fZ6=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF1QipM0jl0zwLNojSvnmBxPFeBE1iMUxHGe2Iz6r89-=w100-h100-p-n-k-no"]}, {"user": {"name": "Ava [Ebrinks on IG]", "link": "https://www.google.com/maps/contrib/116155787470807334112?hl=en-USSsa=XSved=ZahUKEwigkYfJiP ZAhVnnuAKHcHZCgkOvvOBegOIARBi". "thumbnail": "https://lh3.googleusercontent.com/a-/AOh14GiDEh 4 rdUa99VoPaWEckv2vdTsjX5og-vrxcc5JA=s40-c-c0x00000000-cc-rp-mo-ba4-br100". "local guide": true. "reviews": 100. "photos": 303}. "rating": 5.0. "date": "6 months ago". "snippet": "I was blown away with the decor, the ambience and even the smell of this place lol. From the detailed walls to the bronze eagle statues throughout, it was breathtaking. I had the seared sea bass it was fresh, a thick-cut portion of the fish, was moist inside plus the top and bottom of the fish had this thin, flavorful crust that I will not forget. The staff were attentive, kind and were happy to serve you. The host that check me in came over to me while sitting to ask if the service is good. I really appreciated that. Cheers the my host Eden, she\u2019s amazing!GO HERE!", "images": ["https://lh5.googleusercontent.com/p/AF10ipMmWwLb8nLbyF0JGB1031sHK-bjYa1x4JtNcqZi=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF10ipM00nZWLMLewZI8LG7ub-EvCqYUm4T5VF6FPpnD=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF10ipM00nZWLMLewZI8LG7ub-EvCqYUm4T5VF6FPpnD=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF1QipPUxKERlP5vRXAHfcgF3PDYlRYBZ1bHeG5ZvvLf=w100-h100-p-n-k-no", "https://lh5.googleusercontent.com/p/AF1QipMMMGCZyGUroG8PoyMMMOEsKafQNtsBmQgsCyMH=w100-h100-p-n-k-no"]}, {"user": {"name": "Sarah D'Annibale", "link": "https://www.google.com/maps/contrib/111803520357218806612?hl=en-US&sa=X&ved=2ahUKEwjqkYfJiP zAhVnnuAKHcHZCqkQvvQBeqQIARB0", "thumbnail": "https://lh3.googleusercontent.com/a-/A0h14Gj24HSnwoFDXLBZqT8XSrxIkmWSPconMjBEx5Hgmq=s40-c-c0x00000000-cc-rp-mo-ba4-br100", "local quide": true, "reviews": 120, "photos": 86}, "rating": 5.0, "date": "3 weeks ago", "snippet": "Cory was our server today - he was so knowledgeable about the menu and the wines! I eat plant based and he easily found me the best meal. My friends were given excellent suggestions, and the food was wonderful Definitely will come back again! Great place for a business lunch or dinner."}, {"user": {"name": "Yueh Ho", "link": "https://www.google.com/maps/contrib/105062005086368279999?hl=en-US&sa=X&ved=2ahUKEwjqkYfJiP zAhVnnuAKHcHZCqkQvvQBeqUIARCBAQ", "thumbnail": "https://lh3.googleusercontent.com/a-/A0h14GiPqpsP C8xXqheXxDCoCB4FGYOMnve8Vk7t6mnlw=\$40-c-c0x00000000-cc-rp-mo-br100", "reviews": 3}, "rating": 2.0, "date": "2 days ago", "snippet": "The inside of the restaurant was very fancy but the rest of my experience was mediocre to subpar. My steak was overcooked. I asked for medium rare and it was definitely medium with some parts bordering medium well. I wonder if this was possibly due to the server mishearing me due to not being particularly attentive, as I was rarely checked on and given impatient facial expressions when flagging her down for water refills or when asking for the check. I know there are labor shortages so normally I'd chalk this up to her being busy but she focused the bulk of her attention on the regulars at the bar and spent a lot of time making small talk with them, prioritizing that even over when a customer was flagging her down. Poor service and mediocre food = mediocre overpriced restaurant."}. {"user": {"name": "JoyJoy Bean". "link": "https://www.google.com/maps/contrib/101550630488352751222?hl=en-US&sa=X&ved=ZahUKEwigkYfJiP zAhVnnuAKHcHZCgkOvvOBegUIARCQAO". "thumbnail": "https://lh3.googleusercontent.com/a-/AOh14GhFZNBWn1d6PyDV5y7WzDGCiOpCkugNZUg6xOpoa4A=\$40-c-c0x000000000-cc-rp-mo-ba3-br100", "local guide"; true, "reviews"; 55. "photos"; 8}. "rating"; 5.0. "date"; "2 weeks ago", "snippet"; "I enjoy this place and sometimes would come for lunch. The Salmon Avocado Tomato Salad is my go to. Tonight I decided to come for dinner and chose the Sea Bass. I was blown away. The miso butter was rich yet light and paired well with the shitake mushrooms, asparagus and the sweet bass that had the perfect crisp on one side. The coconut cream pie is a must WHEN you come."}, {"user": {"name": "Jen S", "link": "https://www.google.com/maps/contrib/110228238692020496739?hl=en-US&sa=X&ved=ZahUKEwigkYfJiP zAhVnnuAKHcHZCokOvvOBegUIARCbAO", "thumbnail": "https://lh3.googleusercontent.com/a-/A0h14GhRNsRbug0abj68NXPG5Lzn3dktFvXn9X2OU9S-ST8=s40-c-c0x0000000006-cc-rp-mo-br100", "reviews": 3}, "rating": 5.0, "date": "4 weeks ago", "snippet": "Rachel their event coordinator is amazing! She was able to shift our business dinner to a larger room last minute. Everyone left the dinner with rave reviews! She was extremely kind and professional throughout the entire process. We will be back!"}, {"user": {"name": "MS FM", "link": "https://www.google.com/maps/contrib/110313564671440102883?hl=en-US&sa=X&ved=2ahUKEwigkYfJiP zAhVnnuAKHcHZCgkQvvQBegUIARCmAQ", "thumbnail": "https://lh3.googleusercontent.com/a/AATXAJxv06l2RCeuIZEtnBJCGAilq0qq4E0l2Et4AqJi=s40-c-c0x000000000-cc-rp-mo-br100", "reviews": 3, "photos": 3}, "rating": 5.0, "date": "3 weeks ago", "snippet": "From the time we walked in the door the experience was amazing great atmosphere", "images": ["https://lh5.googleusercontent.com/p/AF1Qip03nSHGNkUotnPJi1PBK136tcGTg H07tEPGg0s=w100-h100-p-n-k-no"]}, {"user": {"name": "Zul Velez", "link": "https://www.google.com/maps/contrib/107743254296004125321?hl-en-US&sa=X&ved=2ahUKEwjqkYfJiP zAhVnnuAKHcHZCqkQvvQBegUIARC0AQ", "thumbnail": "https://lh3.googleusercontent.com/a/AATXAJy0yuNQhM1GPX65W2zHJxLNVWSLHRDmKhk8LeIY=s40-c-c0x00000000 cc-rp-mo-bri00", "reviews": 12, "photos": 1), "rating": 5.0, "date": "2 weeks ago", "snippet": "My 1st time going and let megw tell you. Everything was absolutely delicious. From drinks, Appetizers and dinner. If you want to dine fine this is the place. 5 stars"}, {"user": {"name": "Jamal Abdo", "link": "https://www.google.com/maps/contrib/108289296608851538313?hl=en-US&sa=X&ved=ZahUKEwjgrdLJiP ZAhVVxZ4KHfoaD9oQvvDBegQIARAs", "thumbnail": "https://lh3.googleusercontent.com/a/AATXAJznfSi8znftvDAgkEz009MhBnd4anFLZDLHluCH=s40-c-c0x000000000-cc-rp-mo-br100", "reviews": 2}, "rating": 1.0, "date": "3 months ago", "snippet": "I am a regular at this place. I have been going here before the pandemic and I have supported the place during the pandemic. The staff there is great including Eden. David. Nicole, Jessica, etc. Recently, I tried to go there around 9:30 knowing that the place closes at 10. The door was closed so I started walking away. A new staff member who is short and is wearing a yest came out and asked me if I had an order put in by 9:15. I said no but I told him I was a regular there and if it is possible for me to get desert. This guy that I have never seen before said in a condensing look and tone \"We would love to have you when the place is open\". I felt that was uncalled for and he could have just said we are closed now and I would have been fine with that. This quy is not the right person for this establishment. Eden ran this place very well and she was the sweetest manager anyone can ask for. This guy with a vest really does not understand customer service: something that I like about Capital Grille. If you are in the service business, know how to deliver good service instead of having an ego and please lose that yest. It is not needed.", "likes": 5}, {"user": {"name": "Brian Neher", "link":

First looks

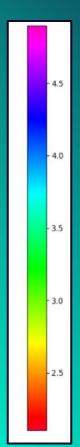
		4 4	Destaurant Miraha	M 1	Altor Restaurant
4.6 4.6 4.6	Restaurante Casi Comida para llevar	4.4 4.4	Restaurant Mirabé Filigrana	4.1 4.1	Restaurant FINESTRA
4.6	Narciso	4.4		4.1	
4.6	Lagman Restaurant	4.4	La Pepita	4.1	Five Guys
4.6	La Trocadero		Boca Grande	4	Restaurant KFC
4.6	Torres del Paine Restaurante	4.3	Racó de la Vila	4	La Tagliatella
4.6	Can Kenji	4.3	Restaurante Jardin	4	Can Fisher - Restaurante 🐟
4.6	Cafè Menssana	4.3	König Barcelona Centre	4	Arenal Restaurant
4.6	Disset 17 Graus	4.3	Racó de la Vila	4	Gremi de Restauració de Barcelona
4.6	Restaurant Parrilla Alfonsina	4.3	Champanillo Barcelona	4	Casa Taberna
4.5 4.5 4.5	Maoz	4.3	Anormal Food Cocina Latinoamericana Delivery & Para llevar	4	Els 4Gats
4.5	La Flauta	4.3	Restaurant ASADOR DE ARANDA	4	La Tarántula Cocina Mexicana
4.5	Montalban Restaurant	4.3	Ten's Tapas Restaurant Barcelona	4 4	Restaurant Green's
4.5 4.5	Restaurante Los Hermanos Comte D'Urgell, Barcelona	4.3	La Tertúlia, bar restaurant	4	Restaurante La Tagliatella Diagonal Mar, Barcelona
4.5	Restaurante El Laurel	4.3	Restaurant ASADOR DE ARANDA	4	Restaurant Casa Carmen
4.5	Ábac	4.3	Restaurante Tio Pepe	4	Restaurante La Tagliatella Diagonal Mar, Barcelona
4.5 4.5 4.5	Restaurant Embat	4.3	Elisabets Restaurant	4	Restaurant Mordisco
4.5	Collonut	4.3	XiAn Restaurante	4	Restaurante La Tagliatella Diagonal Mar, Barcelona
4.5	All you eat is love	4.3	Ramen House	À	Restaurante La Tagliatella
4.5	Tickets	4.3	Fisterra	Ä	Wapa Tapas e Restaurante
4.5 4.5	Shalimar Braseria (Bar y Restaurante) Moments	4.3	Delícies	Ž.	El Arepazo
4.5	La Coqueta Restaurant	4.3	Restaurant MIAN	Ž.	Els 4Gats
4.5	Restaurant Embat	4.3	Ten's Tapas Restaurant Barcelona	2 0	Restaurante La Tagliatella CC. Las Arenas, Barcelona
4.5 4.5 4.5	Musiu	4.3	Ramen House	4 3.9 3.9	Nuba
4.5	Swad-The Indian Restaurant	4.3	La Clara Restaurant	3.9	
4.5	Restaurante Los Hermanos Comte D'Urgell, Barcelona	4.3	Restaurante Rosa Negra	3.9	La Tagliatella
4.5	Tabo Bar Restaurant	4.3	Restaurante Jardin	3.9	La Tagliatella
4.5	Bella Itàlia	4.3	a Restaurant	3.9	Foster's Hollywood
4.5 4.5 4.5	VIRENS	4.3	Bodega La Puntual	3.9	La Fonda
4.5	Mimo's Born	4.3	Pepito Restaurante	3.9	Muxia 2 Bar-Restaurant
4.5	Buenos Aires Grill Restaurant	4.3	La Mar Salada Restaurant	3.9	Yuan Man Sushi Tapas Take Away
4.5	ApriBocca - Italian Restaurant	4.3	Restaurant Rebeka	3.9	Restaurant Arcasa Cosmocaixa
4.5	Restaurante Petra	4.3	Llamber	3.9	DO, Restaurant-Café
4.5 4.5	Koku Kitchen Ramen	4.3	Azul	3.9	Restaurant Arcasa Cosmocaixa
4.5	Abac	4.3	Five Guys	3.9	Ca La Nuri Restaurant
4.5	Spice BCN Amigo	4.2	Divan Turkish Restaurant	3.9	Bar Jupiter Restaurante
4.5 4.5	El Salón	4.2	Divan Turkish Restaurant	3.8	Restaurant Amigó Sant Antoni
4.5	Vadegust	4.2	Buenas Migas	3.8	Ajoblanco Restaurant
4.5	Bar Restaurant Nou	4.2	Restaurant Agua	3.8	ATN restaurant
4.5	Swad-The Indian Restaurant	4.2	Restaurant Tritón	3.8	RESTAURANT FLEXO
7.5	Swaa The Indian Nestaurant	4.2	Venetalia Cética		

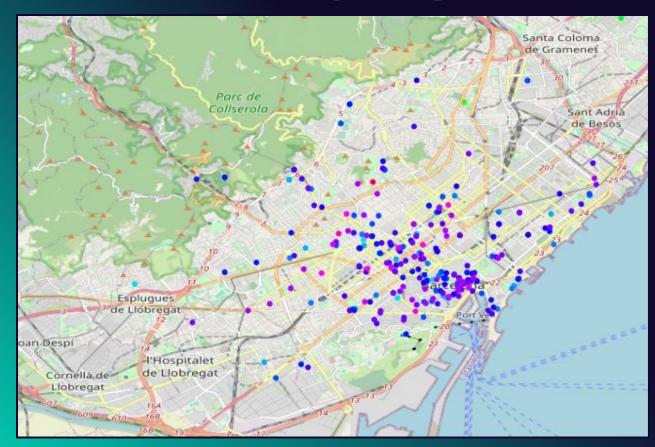
Rating distribution



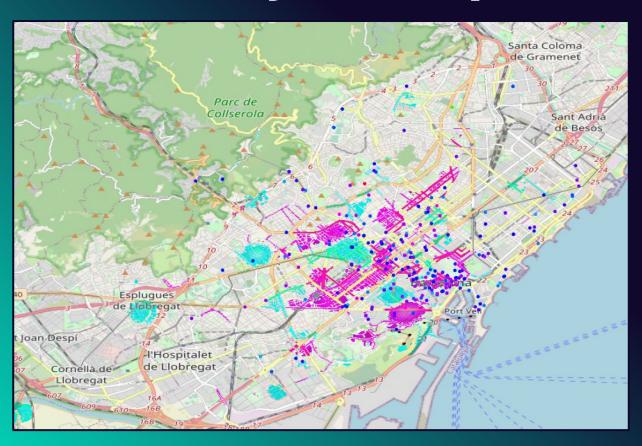
Rating in 🜟

Rating map





Rating Heatmap



Problems we have overcome

No experience

Lack of key concepts in data science

01.

02.

DataBases

Filter informacion from big data bases

Complex tools

Learn how to use tools and graphics never done before

03.

04.

Representation of coordinates in a graph

Thanks for your attention