

ORGANIZERS

NTT Data



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Dean in Mathematics and Statistics Faculty





Albert MayolBusiness Analytics Director





Jordi Puig
Data Science student





Màrius BoadaData Municipal Office Director





Lautaro DolbergData Science Manager



MENTORS





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Angel Villaroya Business Analytics Consultant

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Noelia Medina Business Analytics Consultant

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Raúl Viruez **Business Analytics** Senior Consultant

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M. Jesús Calvo Statistics Head of Department



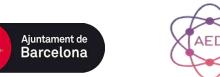
Dànae Canillas Data Science student



Maria Ribalta Data Science student



Eric Walzthöny Data Science student









OBJECTIVES

- Understand some challenges that Barcelona is currently facing
- Use analytical methods to tackle real life problems
- Explore and develop new methods to improve Barcelona's life
- Put in practice the skillset learned throughout University
- Get a glimpse of the professional life of a Data Scientist
- Enjoy and learn working with data

AGENDA

NTTData

Start	End	Saturday 13th November	Sunday 14th November
9:00	9:30	Registration	Working time
9:30	10:00	Welcoming session and challenges	
10:00	10:30	introduction	
10:30	11:00	Keynote: Data science methodology	Keynote: Effective presentations
11:00	11:30	(CRISP-DM)	Reynote. Enective presentations
11:30	12:00	Working time	Working time (Presentations)
12:00	12:30		
12:30	13:00		
13:00	13:30		
13:30	14:00		
14:00	14:30	Lunch	Lunch
14:30	15:00	Lunch	Luncii
15:00	15:30	Working time	Presentations
15:30	16:00		
16:00	16:30		
16:30	17:00		Deliberation
17:00	17:30		Award ceremony and wrap-up
17:30	18:00		Awara ceremony and wrap-up
18:00	18:30	Capchase presentation	
18:30	19:00	Keynote: Visualization tools	
19:00	19:30	Working time	
19:30	20:00		
20:00	20:30		
20:30	21:00	Dinner	
21:00	21:30		
21:30	22:00	Working time	
22:00	22:30		
22:30	23:00		

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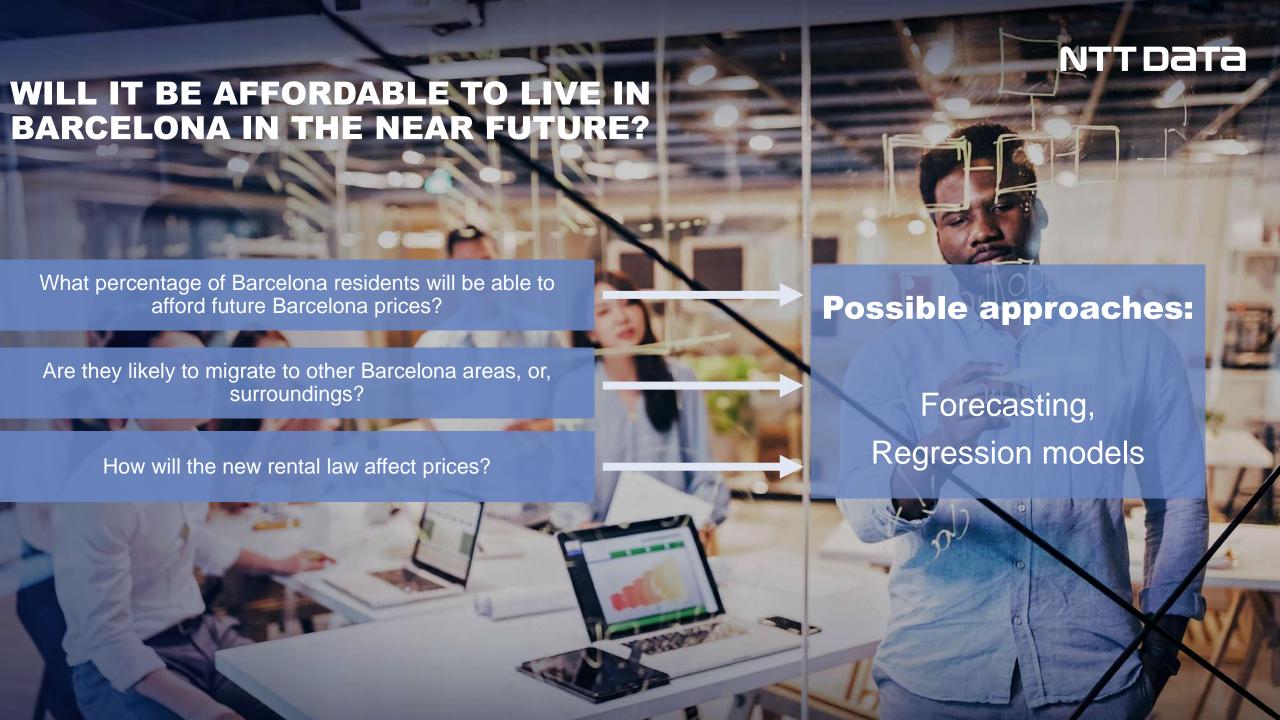
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CHALLENGES

- HOUSING
- MOBILITY
- RESTAURANT REVIEWS







Income per family and district 2008-2017

(annually)

Barrios (barcelona.cat

Home sales and purchases

2013-2021

(quarterly)

<u>Compravenda d'habitatges registrades</u> (barcelona.cat)

Rental prices

2014-2021

(quarterly)

Contractes i preus registrats dels habitatges de lloguer (barcelona.cat)

Average net rent by voting district 2015-2018

(annually)

Por sección censal (barcelona.cat)

Register of inhabitants

2001-2021

(annually)

Padró municipal d'habitants (barcelona.cat)

Unemployment

2011-2021 (monthly)

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Atur registrat de la ciutat de Barcelona - Conjunts de dades -Open Data Barcelona

Descarga de tablas de la web del Departament d'Estadística (barcelona.cat)





SOURCES OF INFORMATION

Barcelona air quality by zones

2008-Present (hourly)

Qualitat de l'aire (transparenciacatalunya.cat)

ZBE information

ZBE (Àrea Metropolitana de Barcelona)

Means of transportation used in Barcelona

2011-2020

(annual)

Enquesta de mobilitat en dia feiner (barcelona.cat

Amount of vehicles in Barcelona

2016-2020

(annual)

Evolució del parc de vehicles (barcelona.cat)

Barcelona traffic and noise contamination

2020-Present

(daily)

La ciutat al dia (ajuntament)

Public transportation

2010-2020

(annual)

<u>Transport públic de Barcelona</u> (barcelona.cat)

Bicing lanes and usage

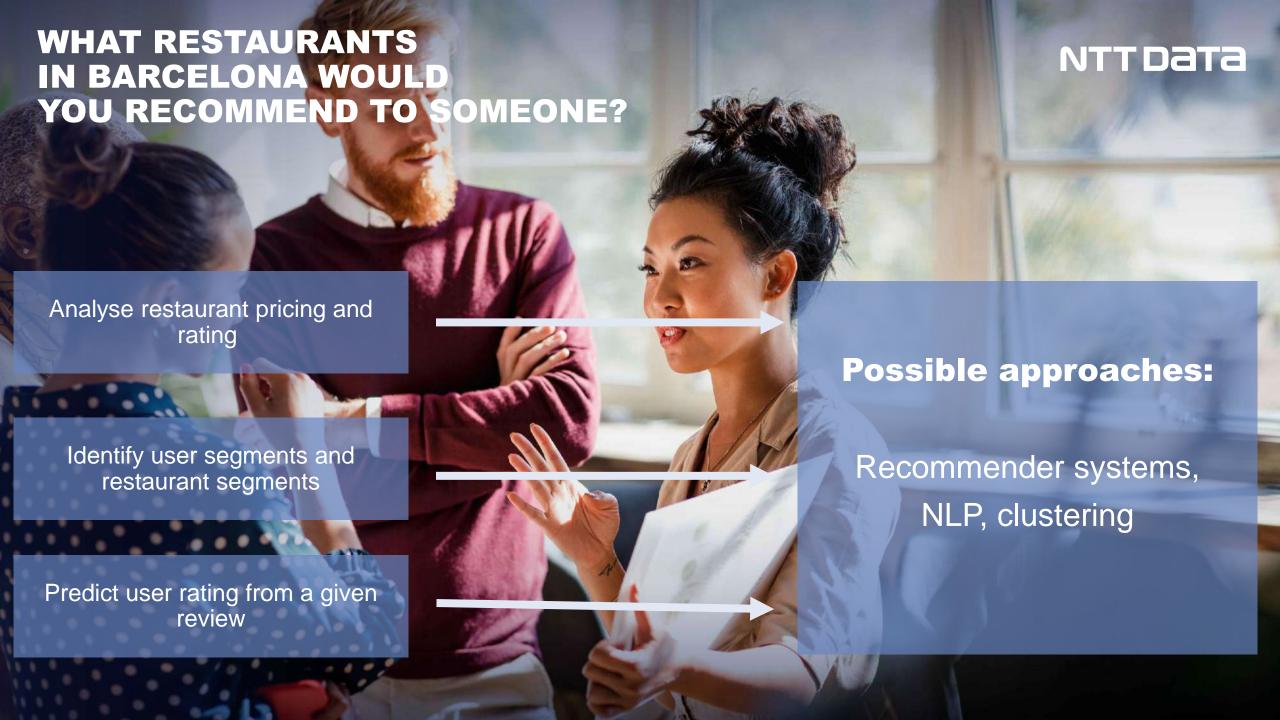
2007-2020

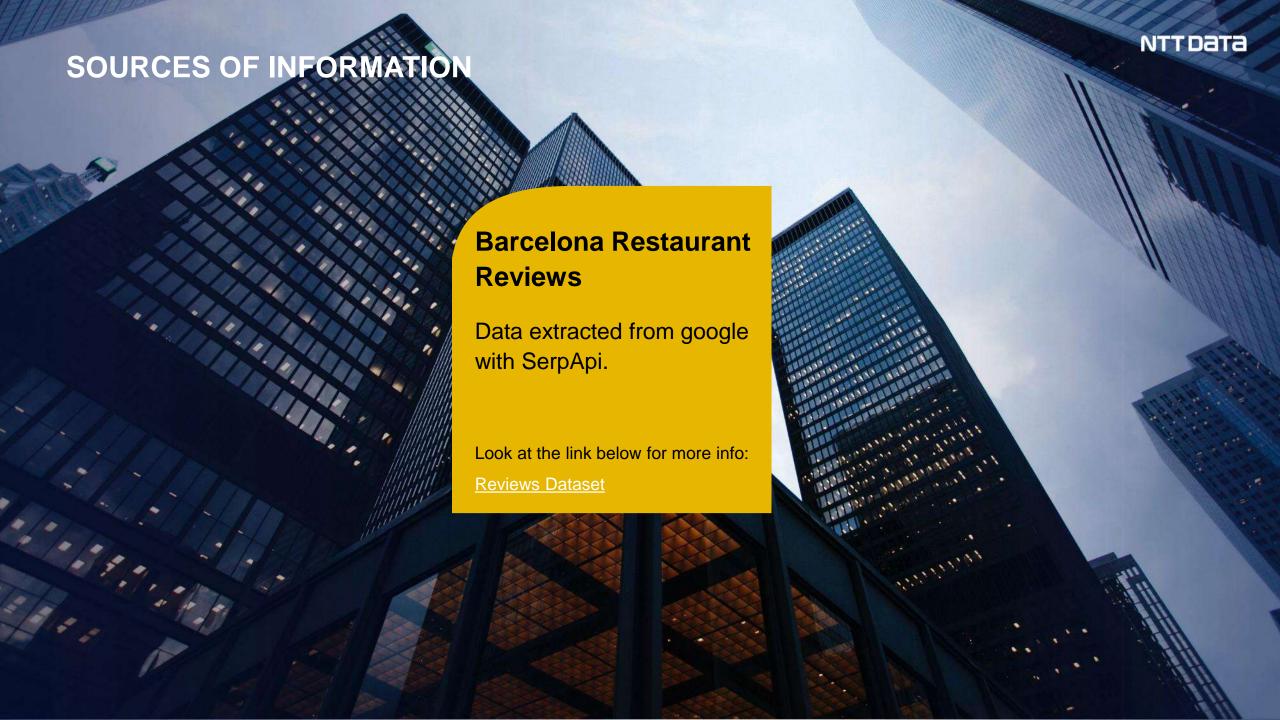
(annual)

El bicing. Dades evolutives 2007-2020 (barcelona.cat)

Descarga de tablas de la web del Departament d'Estadística (barcelona.cat)







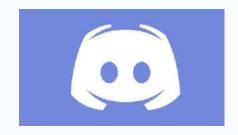






RESOURCES

Join our Discord server



- Datathon links
- Challenges databases links
- Find a team
- Chat with other students

Join our GitHub server



- Download the scripts
- Get the presentations

Join our Devpost server



- Datathon rules
- Judging criteria
- Upload your presentations

