eleven | X-HEC - Data Augmented Proposal Challenge

To the attention of the Data Science for Business' master students

January 30th, 2023









- 1. About eleven
 - 2. Structure of a commercial exchange
 - 3. Case presentations
 - a) The Right Price
 - b) The Endless Line
 - 4. General information
 - a) Expected output
 - b) Practical information

eleven is Europe's first ever specialist strategy firm specifically founded to accompany clients' transformation through the AI and digital revolution, thanks to a unique combination of strategy perspective and hands-on approach



DIGITAL & AI STRATEGY SPECIALIST

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STRATEGY X HANDS-ON POSITIONING

supporting chever executives and organizations from strategic ignition to project scate-up and

A UNIQUE BLEND OF SKILLS

und data science ones, thanks to its Jot consultants that master the continuously evolving

DISTINCTIVE ENTREPRENEURIAL MINDSET

CSR AT THE CORE OF OUR DNA

Our approach enables our clients' projects to meet CSR expectations. Both financial and CSR impacts are tracked, proven and reported thanks to our mastering of digital and AI levers

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Based on a major sales concept: AIDA, eleven relies on its unique expertise to provide innovative solutions to clients' problems



Catch client's attention:

- Address the client's true needs
- Differentiate...





Capture attention through an innovative approach

Identify client's needs:

- Present the main characteristics of the offer
- Provide a clear storytelling
- Show it is complex





Generate interest by showing business/operational impacts of a data-driven approach

Make the offer irresistible:

- Show the relevance of the offer / the benefits of the proposed solution
- Create dissatisfaction with current situation





Increase interest with a promising demo and promising results

Be practical and convincing:

- Be explicit about the next steps
- Help the client visualize their work with you





Convince of feasibility through a detailed technical roadmap



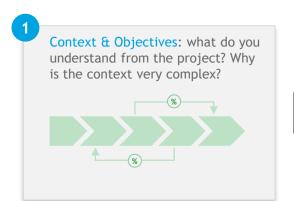
✓ Data enriches the discourse and makes it more effective at each stage of a commercial proposal



Your mission: structure a data-augmented commercial exchange

You are expected to deliver the following:

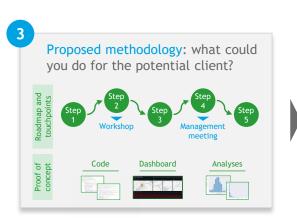
- Your code used to solve the use case, including any relevant dashboard, data analysis, model training, etc. This code should be readable by anyone, with a clear *Readme*, *requirements*, potential *quickstart.py*, etc.
- A "client-ready" PowerPoint presentation of your work, structured as follows:



- ✓ Present your understanding of the situation
- ✓ Include the process, the needs, the potential ROI, etc.
- > c. 2/3 slides



- ✓ Explain the reasons of success: strong interaction with client? Deep expertise in AI?
- > c. 1 slide



- ✓ What you could do, how, what you have already done, any relevant insight to prove your expertise and how much time do you need for the mission!
- > c. 6/8 slides



- ✓ Introduce yourself, your background and explain why you are relevant for this mission
- > c. 1 slide

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eleven augmented proposal challenge: deliver a convincing commercial exchange to your prospect leveraging your dual expertise in business and data science



Exercise:

- √ Make groups of 5 people
- √ Choose among the 2 available topics
- ✓ On your topic, put yourself in a data consultant's shoes during a 1st commercial exchange:
 - ✓ What is the context of the company? (value chain, competition, technological trends, etc.)
 - ✓ How could you generate added-value for them using potential of new technological enablers? (e.g., time-series, machine learning for tabular data, NLP, etc.)
 - √ How will the mission be structured? (roadmap, key steps, meeting with management, etc.)
 - ✓ Can you make a first assessment of the feasibility of your solution? (data visualization, 1st demo, etc.)
 - √ How will you leverage the results to provide key business insights?
- ✓ Note that the best solution for your client may not be the development of a custom-made solution, but could be the acquisition of a company, some key partnerships, etc.
- ✓ Synthesize your work in a commercial exchange (up to 20 slides)
- ✓ Upload your work on the Sharepoint (presentation, code, etc: see details at the end of this presentation)
- ✓ Present to the jury and prepare for questions



The Right Price

How to estimate a property price?



The Endless Line

How to forecast waiting times in a theme park?

The Right Price

improving definition and computation of mutability score in Île-de-France



Context: the potential client, a player in real-estate industry, wants to optimize its whole value chain, especially the purchase/sale price estimation

Value chain of a real estate development project

For illustration purposes



Prospection



Construction



Operation



Renovation



Sale

What can be constructed?



Data: PLU (Plan Local d'Urbanisme)

What is constructed today?



• Data: Databases of constructed buildings (height, areas, ..)

What is purchase/sale prices today?



Data: Databases of historical transactions

Scope of the supercase

What is the willingness to sell/buy?



Data: NA

Note that a price is useless without a related typology/area

E.g. In the same location a 60m² flat could be sold at 6000€/m² and a 40m² flat at 6500€/m²

Objectives: The client wants to correctly estimate the price of a land in order to identify the best opportunities

Scope of the case study

1

How to accurately predict the selling price of properties in a given land parcel?

2

How to leverage this information to give strategic recommendations to the client?

Deliverables



1. The code used to build the demo tool



2. A visual dashboard to present the results to the client



3. A "client-ready" deck of PowerPoint slides

Data available: you have access to geo-localized data from official mutation databases in Île-de-France, thereby providing valuable data sources with large and various information on the properties

Note that as in any data science project, the data may require further data engineering before being fully leverageable

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26/10/2015	2015	10	75 Vente	FALSE	95000.0	131 UNE DEPENDANCE	2.3304056 48.866149	1	1	1	75101	1
13/06/2019	2019	6	75 Vente	FALSE	1900000.0	152 BATI MIXTE - LOGEMEI	2.3435634 48.861828	1	0	1	75101	1
20/04/2017	2017	4	75 Vente	FALSE	1509000.0	121 UN APPARTEMENT	2.3375203 48.865924	1	2	1	75101	1
06/03/2015	2015	3	75 Vente	FALSE	28250.0	131 UNE DEPENDANCE	2.3436309 48.860933	1	1	1	75101	1
01/08/2017	2017	8	75 Vente	FALSE	500000.0	121 UN APPARTEMENT	2.3427047 48.861218	1	1	1	75101	1
03/07/2019	2019	7	75 Vente	FALSE	367000.0	121 UN APPARTEMENT	2.3403178 48.863702	1	1	1	75101	1
27/10/2016	2016	10	75 Vente	FALSE	90000.0	121 UN APPARTEMENT	2.3487978 48.863630	1	2	1	75101	1
23/11/2018	2018	11	75 Vente	FALSE	135000.0	121 UN APPARTEMENT	2.3354345 48.866459	1	1	1	75101	1
26/08/2016	2016	8	75 Vente	FALSE	190000.0	121 UN APPARTEMENT	2.3416377 48.864750	1	1	1	75101	1
28/12/2017	2017	12	75 Vente	FALSE	300000.0	14 ACTIVITE	2.3473709 48.864122	1	2	1	75101	1
11/06/2014	2014	6	75 Vente	FALSE	730000.0	121 UN APPARTEMENT	2.3316604 48.864810	1	2	1	75101	1
02/05/2018	2018	5	75 Vente	FALSE	935000.0	121 UN APPARTEMENT	2.3293296 48.865974	1	1	1	75101	1
11/05/2016	2016	5	75 Vente	FALSE	535000.0	121 UN APPARTEMENT	2.3468805 48.859271	1	1	1	75101	1
07/10/2016	2016	10	75 Vente	FALSE	339050.0	121 UN APPARTEMENT	2.3361317 48.865615	1	1	1	75101	1
11/07/2018	2018	7	75 Vente	FALSE	413438.0	121 UN APPARTEMENT	2.3334257 48.864586	1	2	1	75101	1
22/10/2018	2018	10	75 Vente	FALSE	3327000.0	14 ACTIVITE	2.3407276 48.862311	1	3	1	75101	1
06/02/2018	2018	2	75 Vente	FALSE	650000.0	122 DEUX APPARTEMENTS	2.3331821 48.864667	2	2	1	75101	1
04/09/2018	2018	9	75 Vente	FALSE	375000.0	14 ACTIVITE	2.3452226 48.860565	1	1	1	75101	1
09/02/2015	2015	2	75 Vente	FALSE	163000.0	121 UN APPARTEMENT	2.3413226 48.865097	1	2	1	75101	1
18/06/2020	2020	6	75 Vente	FALSE	768490.0	121 UN APPARTEMENT	2.3437107 48.863758	1	1	1	75101	1
07/06/2017	2017	6	75 Vente	FALSE	15000.0	14 ACTIVITE	2.3428064 48.861055	1	1	1	75101	1
13/11/2014	2014	11	75 Vente	FALSE	480000.0	121 UN APPARTEMENT	2.3413863 48.861495	1	1	1	75101	1
30/03/2018	2018	3	75 Vente	FALSE	823000.0	121 UN APPARTEMENT	2.3330651 48.863992	1	2	1	75101	1
14/09/2015	2015	9	75 Vente	FALSE	250000.0	121 UN APPARTEMENT	2.3448141 48.858214	1	1	1	75101	1
16/02/2018	2018	2	75 Vente	FALSE	2873000.0	122 DEUX APPARTEMENTS	2.3354345 48.866459	2	3	1	75101	1
11/03/2019	2019	3	75 Vente	FALSE	525000.0	121 UN APPARTEMENT	2.3356954 48.865197	1	2	1	75101	1



✓ How would you have geo-localized this data by yourself?



Resources: You are free to use any resources you want, here are some recommendations to help you get started





We highly recommend you use Python even though same kind of results could be achieved with similar tools (with R for instance)

----- Relevant libraries







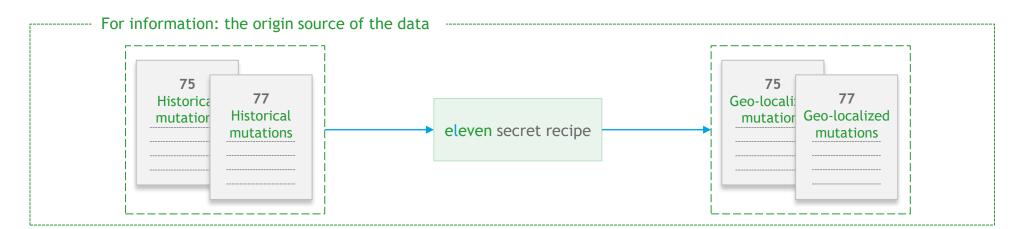


To develop a wide range of ML models

To use geo-localized visualization tools

To use geo-localized advanced ML models

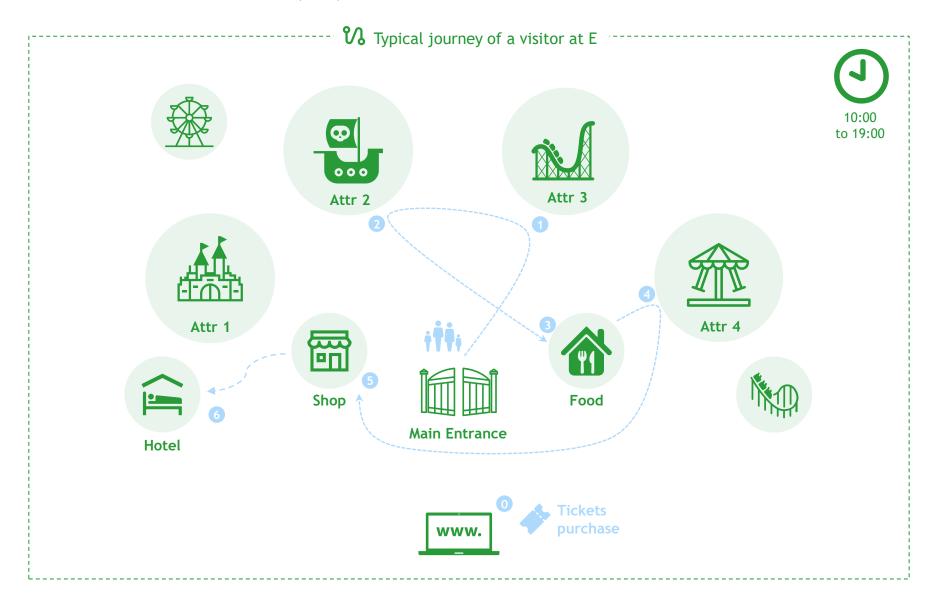
To efficiently develop a dashboard / front-end



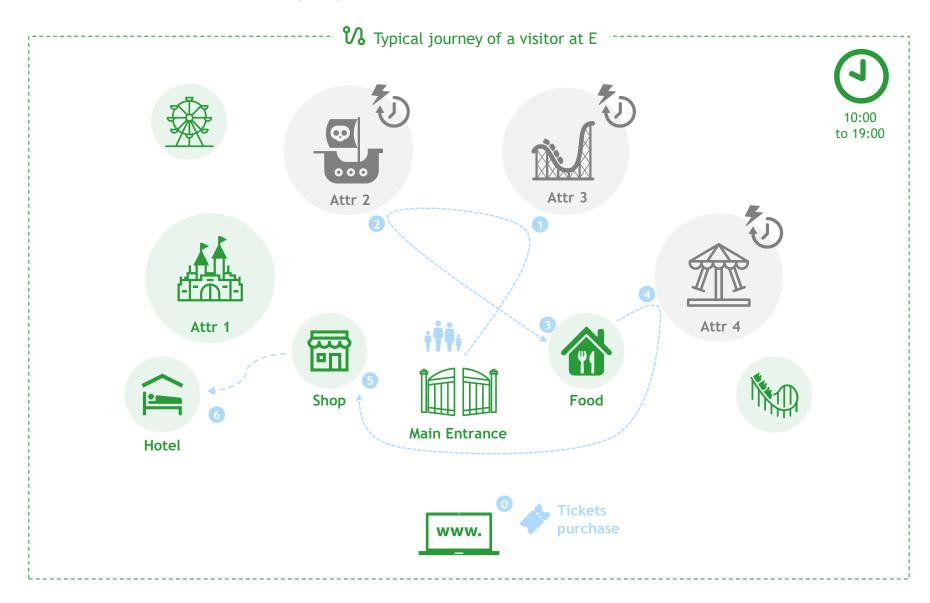
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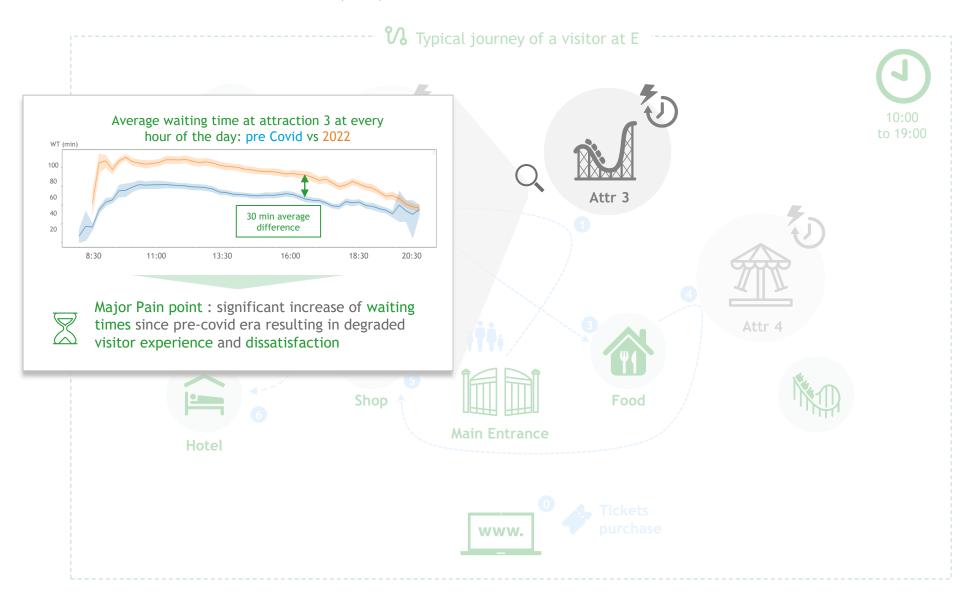
Context: E, a global theme park, is experiencing a significant increase of waiting times at attractions, which affects visitor satisfaction (1/3)



Context: E, a global theme park, is experiencing a significant increase of waiting times at attractions, which affects visitor satisfaction (2/3)



Context: E, a global theme park, is experiencing a significant increase of waiting times at attractions, which affects visitor satisfaction (3/3)



Objectives: E, therefore, wants to accurately forecast waiting times for its attractions and identify use cases to leverage this information to improve the park's KPIs

Scope of the case study

1

How to accurately forecast attractions waiting times?

2

How to leverage this information to enhance E's KPIs?



Deliverables



1. The code used to build the demo tool



2. A visual dashboard to present the results to the client



3. A "client-ready" deck of PowerPoint slides

Objectives: E, therefore, wants to accurately forecast waiting times for its attractions and identify use cases to leverage this information to improve the park's KPIs

Scope of the case study

1

How to accurately forecast attractions waiting times?

The client is looking for medium/long term forecasts, assuming normal operation of the attractions. Therefore, make sure to remove any data related to any unplanned event

ormation to



Deliverable:



 The code used to build the demo tool



2. A visual dashboard to present the results to the client



A "client-ready" deck of PowerPoint slides Data available: you have access to past waiting times, parks' attendance, weather data, schedule of parades and opening/closing times

E operates two theme parks in the same location: in this case study, we will focus on waiting times at **PortAventura World**



You have access to five datasets to perform your analyses and build your models













attendance.csv



entity_schedule.csv





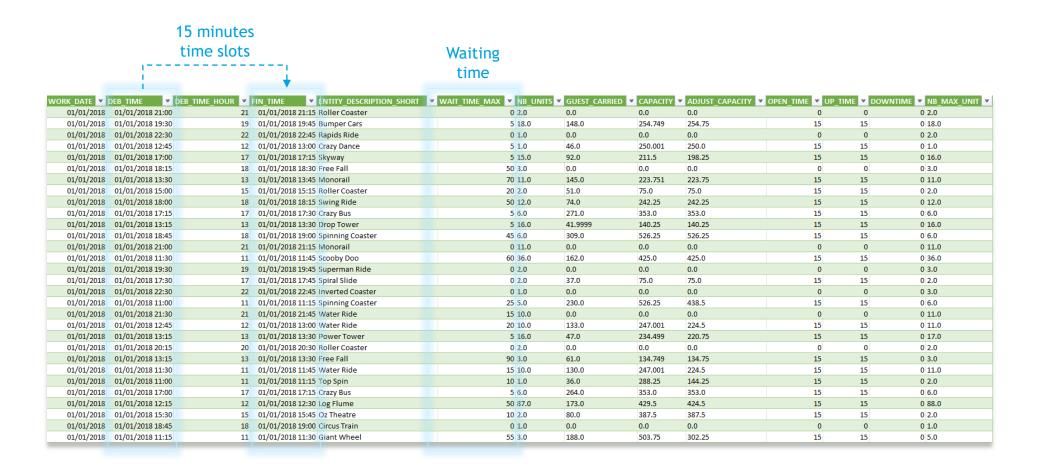


parade_night_show.csv

link_attraction_park.csv



Data available: past waiting times are provided for each attraction at a granularity of 15 minutes









USAGE_DATE 💌	FACILITY_NAME	attendance 💌
01/06/2018	PortAventura World	46804
01/06/2018	Tivoli Gardens	20420
02/06/2018	PortAventura World	57940
02/06/2018	Tivoli Gardens	29110
03/06/2018	PortAventura World	44365
03/06/2018	Tivoli Gardens	23727
04/06/2018	PortAventura World	37617
04/06/2018	Tivoli Gardens	15115
05/06/2018	PortAventura World	32438
05/06/2018	Tivoli Gardens	16373
06/06/2018	PortAventura World	28399
06/06/2018	Tivoli Gardens	15831
07/06/2018	PortAventura World	39436
07/06/2018	Tivoli Gardens	16587
08/06/2018	PortAventura World	36459





Data available: The *entity_schedule* dataset contains all information on the opening, closing and rehabilitation works of attractions

REF_CLOSING_DESCRIPTION ~	ENTITY_DESCRIPTION_SHORT >	ENTITY_TYPE ▼	DEB_TIME *	FIN_TIME *	UPDATE_TIME *	WORK_DATE ▼
	Tivoli Gardens	PARK	19/11/2018 10:00	19/11/2018 18:00	20/11/2018 08:24	19/11/2018
	Dizzy Dropper	ATTR	07/04/2022 08:30	07/04/2022 22:04	08/04/2022 08:00	07/04/2022
	Sling Shot	ATTR	28/03/2018 08:37	28/03/2018 18:12	29/03/2018 08:24	28/03/2018
	Gondola	ATTR	11/04/2019 09:55	11/04/2019 20:19	12/04/2019 08:59	11/04/2019
	Monorail	ATTR	29/06/2019 08:30	29/06/2019 20:35	30/06/2019 08:14	29/06/2019
Fermeture Réhab	Top Spin	ATTR	07/04/2019 23:59	07/04/2019 23:59	08/04/2019 07:40	07/04/2019
	PortAventura World	PARK	17/07/2018 08:30	17/07/2018 09:30	18/07/2018 07:48	17/07/2018
	Skyway	ATTR	13/12/2019 08:23	13/12/2019 18:02	14/12/2019 07:59	13/12/2019
	Sling Shot	ATTR	21/07/2018 08:33	21/07/2018 20:13	22/07/2018 07:46	21/07/2018
	Gondola	ATTR	11/11/2019 09:00	11/11/2019 18:22	12/11/2019 07:18	11/11/2019
	Tivoli Gardens	PARK	19/04/2019 08:30	19/04/2019 09:30	20/04/2019 07:43	19/04/2019
	PortAventura World	PARK	28/02/2019 08:30	28/02/2019 09:30	01/03/2019 09:23	28/02/2019
Fermeture Réhab	Kiddie Coaster	ATTR	21/02/2018 23:59	21/02/2018 23:59	22/02/2018 08:36	21/02/2018
	PortAventura World	PARK	18/08/2019 08:30	18/08/2019 09:30	19/08/2019 07:34	18/08/2019
Fermeture Opérationnelle	Oz Theatre	ATTR	04/09/2018 23:59	04/09/2018 23:59	05/09/2018 08:12	04/09/2018
	PortAventura World	PARK	05/02/2020 10:00	05/02/2020 19:00	06/02/2020 08:09	05/02/2020
	Free Fall	ATTR	04/01/2020 08:11	04/01/2020 18:15	05/01/2020 07:52	04/01/2020
	Tivoli Gardens	PARK	04/05/2018 08:30	04/05/2018 09:30	05/05/2018 11:16	04/05/2018
Fermeture Opérationnelle	Oz Theatre	ATTR	24/06/2018 23:59	24/06/2018 23:59	25/06/2018 08:03	24/06/2018
	Giga Coaster	ATTR	08/04/2019 09:25	08/04/2019 21:00	09/04/2019 07:45	08/04/2019
	Tivoli Gardens	PARK	29/01/2020 08:30	29/01/2020 09:30	03/02/2020 15:22	29/01/2020
	Inverted Coaster	ATTR	15/09/2018 09:55	15/09/2018 18:20	16/09/2018 08:38	15/09/2018
	Himalaya Ride	ATTR	05/06/2018 10:00	05/06/2018 23:00	06/06/2018 07:27	05/06/2018
	Water Ride	ATTR	02/05/2019 08:30	02/05/2019 21:14	05/06/2019 09:12	02/05/2019







dt_iso ▼ temp ▼	visibility feels_like	temp_min	temp_max	wind_gust	rain_1h	rain_3h	snow_1h	snow_3h	clouds_all	weather_main	weather_description	weather_icon
1999-01-01 00:00:00 +0000 UTC 8.33	5.28	8.14	9.32							8 Clear	sky is clear	01n
1999-01-01 01:00:00 +0000 UTC 8.08	5.18	7.94	9.32							6 Clear	sky is clear	01n
1999-01-01 02:00:00 +0000 UTC 8.08	5.38	7.94	8.74						1	4 Clouds	few clouds	02n
1999-01-01 03:00:00 +0000 UTC 7.31	4.42	7.14	8.62						3	9 Clouds	scattered clouds	03n
1999-01-01 04:00:00 +0000 UTC 6.91	4.0	6.74	8.32						5	2 Clouds	broken clouds	04n
1999-01-01 05:00:00 +0000 UTC 5.45	2.35	4.6	7.32						5	2 Clouds	broken clouds	04n
1999-01-01 06:00:00 +0000 UTC 5.63	2.57	4.6	7.62						5	7 Clouds	broken clouds	04n
1999-01-01 07:00:00 +0000 UTC 5.64	2.38	3.6	7.32						6	5 Clouds	broken clouds	04n
1999-01-01 08:00:00 +0000 UTC 5.99	2.69	4.6	6.94						6	1 Clouds	broken clouds	04d
1999-01-01 09:00:00 +0000 UTC 6.72	3.42	5.6	7.97						8	3 Clouds	broken clouds	04d
1999-01-01 10:00:00 +0000 UTC 7.01	3.97	5.6	8.77						8	9 Clouds	overcast clouds	04d
1999-01-01 11:00:00 +0000 UTC 9.41	7.22	8.6	11.77						9	2 Clouds	overcast clouds	04d
1999-01-01 12:00:00 +0000 UTC 10.98	10.14	10.6	11.47						7	3 Clouds	broken clouds	04d
1999-01-01 13:00:00 +0000 UTC 10.8	9.92	10.6	12.32						3	2 Clouds	scattered clouds	03d
1999-01-01 14:00:00 +0000 UTC 12.09	11.34	11.32	12.77						5	2 Clouds	broken clouds	04d
1999-01-01 15:00:00 +0000 UTC 11.6	10.83	10.92	11.94						4	2 Clouds	scattered clouds	03d
1999-01-01 16:00:00 +0000 UTC 10.38	9.61	8.77	10.94						3	2 Clouds	scattered clouds	03d
1999-01-01 17:00:00 +0000 UTC 9.69	7.88	8.32	9.94							8 Clear	sky is clear	01n
1999-01-01 18:00:00 +0000 UTC 7.93	5.59	6.07	8.6							8 Clear	sky is clear	01n
1999-01-01 19:00:00 +0000 UTC 7.69	5.29	6.74	8.32						1	9 Clouds	few clouds	02n
1999-01-01 20:00:00 +0000 UTC 6.8	4.17	6.6	7.32						7	9 Clouds	broken clouds	04n
1999-01-01 21:00:00 +0000 UTC 6.56	3.86	6.14	6.72						10	0 Clouds	overcast clouds	04n
1999-01-01 22:00:00 +0000 UTC 5.91	2.97	5.74	6.32						9	8 Clouds	overcast clouds	04n
1999-01-01 23:00:00 +0000 UTC 5.91	2.8	5.74	6.32						9	4 Clouds	overcast clouds	04n
1999-01-02 00:00:00 +0000 UTC 5.78	2.29	5.44	6.32						10	0 Clouds	overcast clouds	04n
1999-01-02 01:00:00 +0000 UTC 5.91	2.2	5.74	6.32						10	0 Clouds	overcast clouds	04n
1999-01-02 02:00:00 +0000 UTC 6.74	3.04	5.74	7.32						10	0 Clouds	overcast clouds	04n
1999-01-02 03:00:00 +0000 UTC 6.64	2.74	6.64	6.92						10	0 Clouds	overcast clouds	04n
1999-01-02 04:00:00 +0000 UTC 6.91	2.94	6.74	7.32			_			10	0 Clouds	overcast clouds	04n



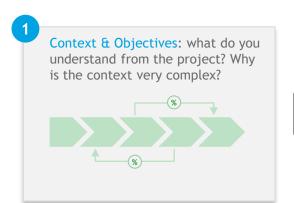
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Expected output: how should you structure a commercial exchange?



You are expected to deliver the following:

- Your code used to solve the use case, including any relevant dashboard, data analysis, model training, etc. This code should be readable by anyone, with a clear *Readme*, *requirements*, potential *quickstart.py*, etc.
- A "client-ready" PowerPoint presentation of your work, structured as follows:



- ✓ Present your understanding of the situation
- ✓ Include the process, the needs, the potential ROI, etc.
- > c. 2/3 slides



- ✓ Explain the reasons of success: strong interaction with client? Deep expertise in AI?
- > c. 1 slide

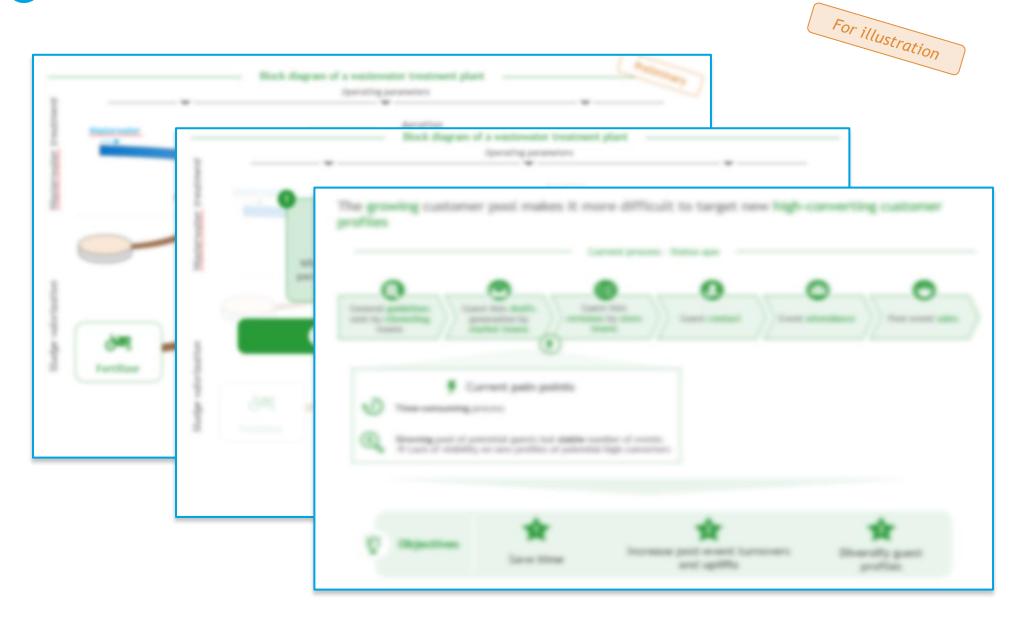


- ✓ What you could do, how, what you have already done, any relevant insight to prove your expertise and how much time do you need for the mission!
- > c. 6/8 slides



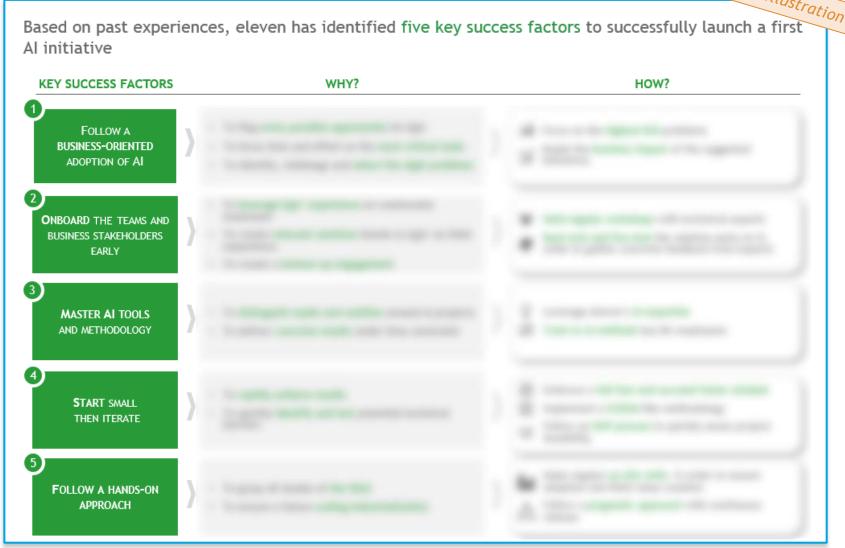
- ✓ Introduce yourself, your background and explain why you are relevant for this mission
- > c. 1 slide

1 Context & Objectives: example of potential output



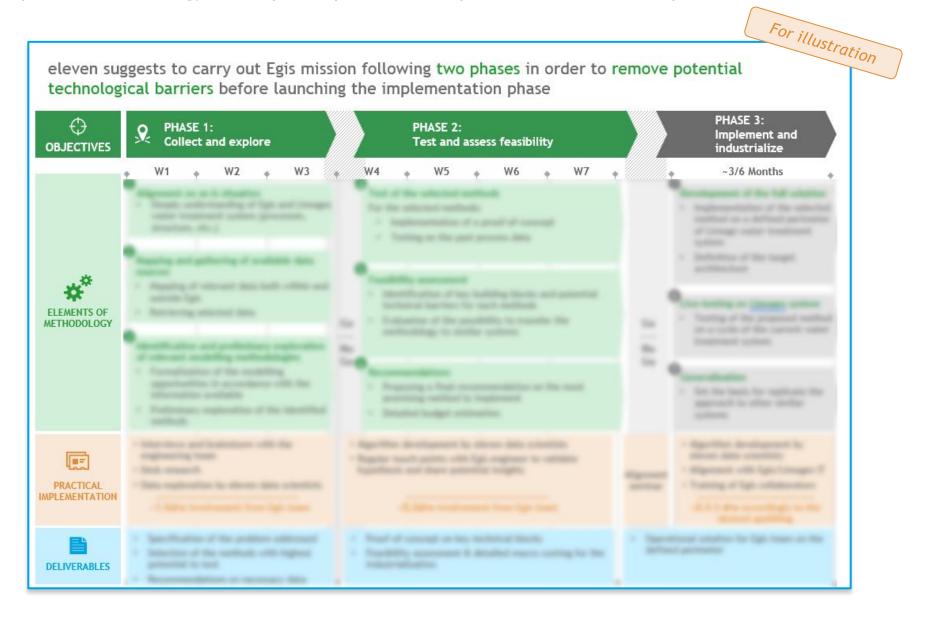


For illustration

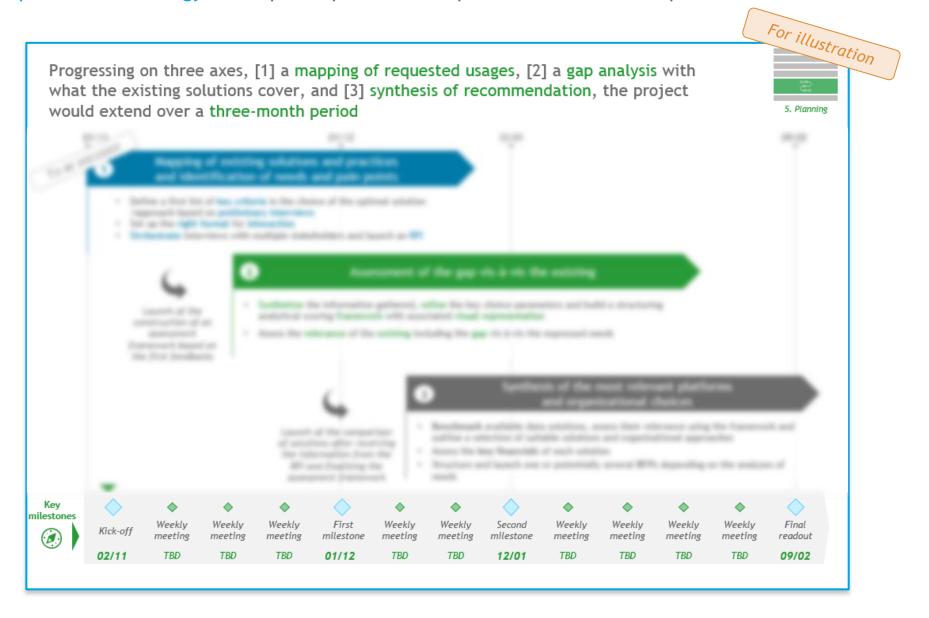




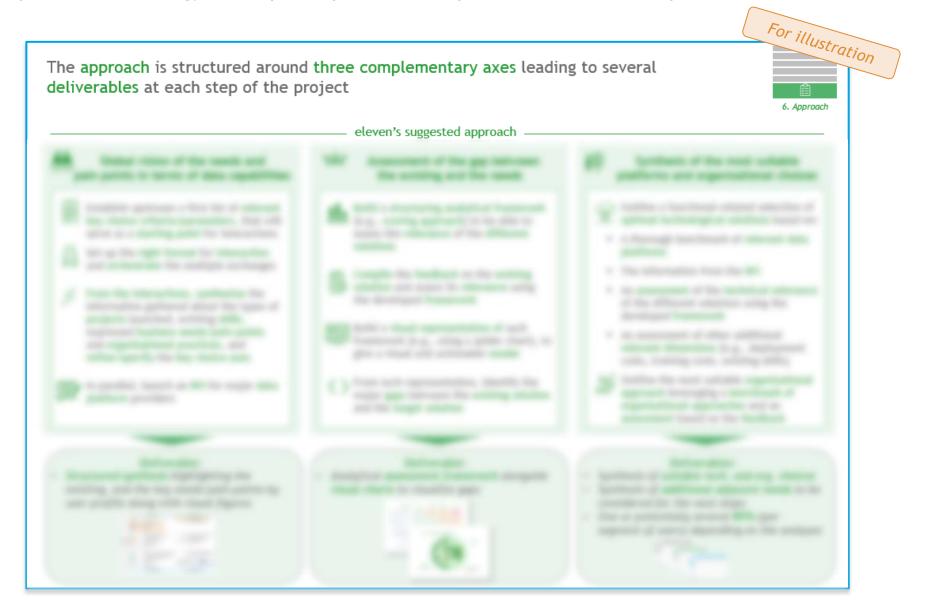












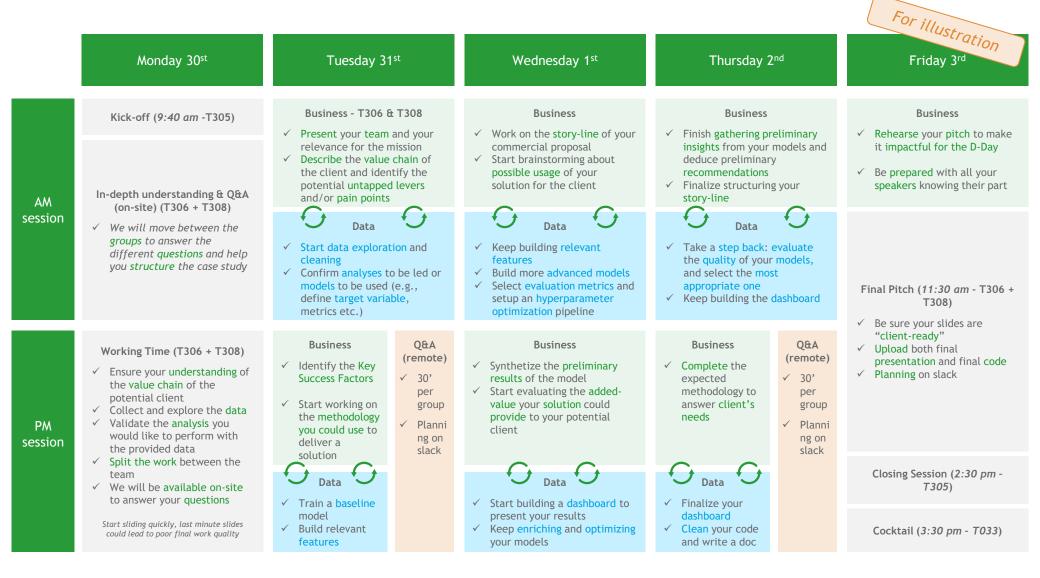






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Proposed schedule for the week: the timing may be short, do not hesitate to split the work between the members of the team





Detailed schedule for the Q&A sessions



? Q&A sessions *

	Q&A s	ote) - Tuesda	uesday 31 st			
	The Rig	ht Price	The End	less Line		
3:30pm-4pm	Team 1	Team 2	Team 5	Team 6		
4pm-4:30pm	Team 3	Team 4	Team 7	Team 8		

	Q&A s	day 2 nd		
	The Rig	ht Price	The End	less Line
3:30pm-4pm	Team 1	Team 2	Team 5	Team 6
4pm-4:30pm	Team 3	Team 4	Team 7	Team 8

^{**} Time slots and groups repartition may be updated during the Hackathon: any change of time will be notified on Slack



^{*} Q&A sessions will be led by two eleven consultants per topic: each group will be followed by one consultant throughout the week

Detailed schedule for the pitch sessions



Pitch sessions ————

	Pitch sessions (T306 + T308) - Friday 3 rd					
	The Right Price The Endless Line (T306) (T308)					
11:30am- 12pm	Team 1	Team 5				
12:10pm- 12:40pm	Team 2	Team 6				
12:50pm- 13:20pm	Team 3	Team 7				
13:30pm- 14:00 pm	Team 4	Team 8				

^{**} Time slots and groups repartition may be updated during the Hackathon: any change of time will be notified on Slack



Final presentation details and best practices:

On Friday 3rd, you will have to present your work in front of a jury during a closed-door session

The modalities of the presentation will be as follow:

- 15min group pitch based on a PowerPoint presentation
- ~10min Q&A session with the jury
- ~10min debrief from the jury

For each case, a winner will be announced. The two winner groups will then present their work to the other students (same modalities with questions from the students)

The presentation must be as professional as possible. Here are some advices and best practices that may be useful:





- Be concise and precise: focus on the most important messages, as you only have 15 minutes to
 present the work achieved. You should limit the number of slides you present (you can still add
 appendices if needed)
- Be organized as a team: split up the speaking time between the team members beforehand to make it smoother
- Be honest: tell where you encountered issues or challenges
- C-suite level: you should convince both the CEO and the CTO/CDO of the company



Evaluation criteria:

*The contribution of each criteria may not reflect the actual value of each step for a commercial exchange

Although different in their essence, the cases will be graded based on similar criteria. NB: any provided code will be tested in order to confirm its good functioning.

Topic		Description	Contribution to the final grade*
Engagement		The engagement of the team during the exercise (how far you've gone, how autonomous you have been, how much you have asked questions when stuck, etc.)	2 points
aspect	Presentation quality	The quality of your final presentation: how professional it looks (slide quality), how clear and complete it is (storytelling), how pertinent your answers are, etc.	3 points
Business aspect	Business methodology	The creativity and relevance of the methodology (i.e., scientific approach) you choose regarding the problem you try to solve, and the data provided, the business sense behind your methodology and the pragmatism of your presentation	6 points
ct	Technical choices	The explanation of your technical choices and your ability to present them in non-technical terms	3 points
Technical aspect	Model efficiency or Analysis relevance	The performance of your model (specific to each case), the relevance for the problem in question, the quality of the analysis led	5 points
Tech	Code good practices	Your code must be well structured, easy to run and easy to understand with clear readme and requirements.	1 point

Please note that all groups will be graded at the end of the week



The Slack workplace

For this challenge, we opened a Slack workplace for you to ask your questions when eleven consultants are not on campus

On this workplace, you will find three channels:

- 1) **général**: for all questions and information related to the organization of the challenge
- **TheRightPrice**: for all questions specifically related to *TheRightPrice* case
- 3) TheEndlessLine: for all questions specifically related to TheEndlessLine case

Additional information may also be pinned in these channels (schedules, classroom numbers, etc.)

Please use the right channel to ensure fluidity of the interactions Before asking something, also make sure that the requested information has not been given already;)



You may download the slack application on your device or access it via your usual browser



Download instructions & submission process

How to download datasets?

You can download datasets and potential additional information at the following links:

- Case #1: TEL - get your files here

- Case #2: TRP - get your files here



How to submit your works?

Each group will receive a link by email with a Sharepoint folder to submit their assignment (both Presentation + Code)



Notes:

- You can organize your folder as you wish.
- You can keep old files that should not be submitted to the jury in a *O_Archives* folder





Now is your turn!

- ✓ Find your groups of 5/6 people and choose a subject
- ✓ Put yourself in a data consultant's shoes: start structuring your approach and start exploring the data
- √ We will be here until 4:00 pm to validate your approach and answer your questions



Mamoun, coach for « The Endless Line »



Oussama, coach for « The Endless Line »



Charles, coach for « The Right Price»



Raphaël, coach for « The Right Price»



Enjoy the challenge!

