

Markdown program for close to expiration products

Practical case





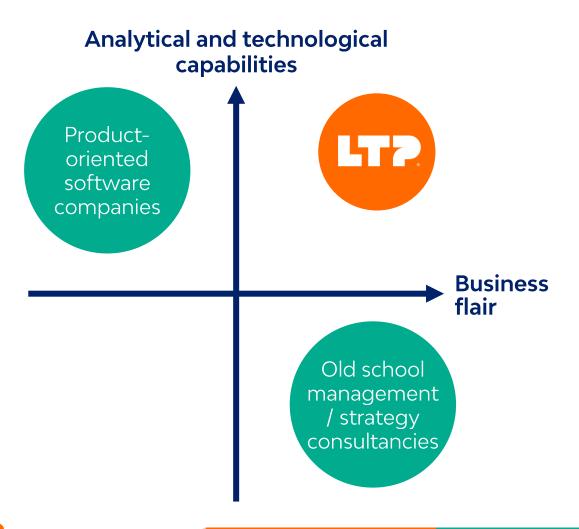


To empower **every business decision** with AI & Advanced Analytics



It is the blend of analytical capabilities and business flair that truly sets LTP apart from other providers

What makes us different



Versatile analytical power

90+ consultants experienced in data science, optimization, simulation and BI

Rich business expertise

Vast work across sectors, by a team with diverse professional backgrounds

Solid research background

Academy spin-off with strong R&D skills (+100 case studies and papers on renowned entities)











LTP is an advanced analytics & business consultancy firm





Reputable companies from several industries trust LTP as a key partner for business analytics

Our clients

NOT EXHAUSTIVE

Services



Retail



Consumer goods



Manufacturing



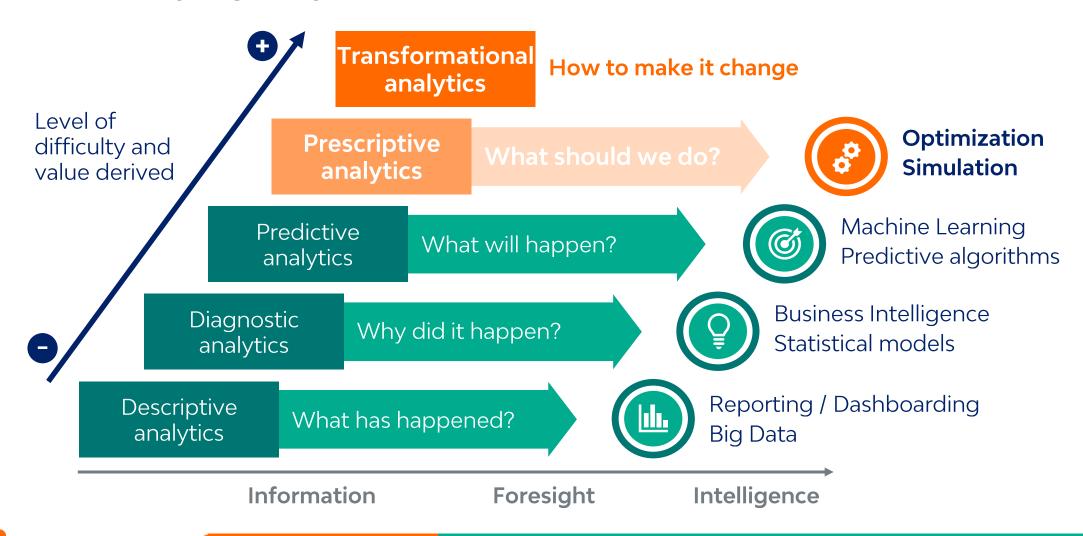
50+ Organizations trust us as a key partner for business analytics

90% Of our clients partnered with us in more than one project



LTP's work in business analytics is transformational

The business analytics journey





Case Study – Discounts for close to expiration products (pink labels)

Examples



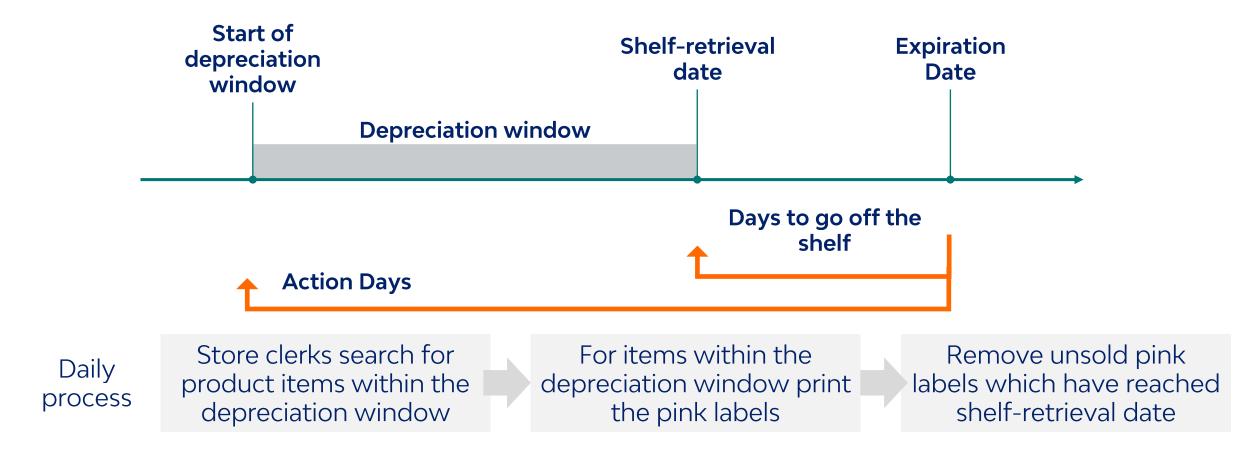






Case Study – Discounts for close to expiration products (pink labels)

Process overview





Case Study – Discounts for close to expiration products (pink labels)

Data dictionary

Data_labels	Description
Idstore	Store printing the label
Sku	SKU id for the label
Brand	SKU brand
Oldpvp	Price before the markdown
Newpvp (discount)	Price identified in the pink label (discount rate applied)
Labelqty	Number of labels issued (always 1 in the dataset)
Weight	Weight of each SKU
Payment_method	Payment method used
Margin (%)	% of gross profit
Profit (€)	Gross profit in euros
perc_expiration_sk u	Proportion of the shelf life remaining when the label was printed
expiring_date	Expiration date of the item
labelling_date	Labelling date
sell_date	Sell date of the label
Sold	(=1) if the label is sold before the expiration date, (=0) otherwise

Data_store	Description
Idstore	Store printing the label
type	Size of the store
selling_square	Selling area available
district	Location of the store

Label



The first phase of this case-study intends to recreate a real-life scenario with a dataset far from perfect

1st challenge

Firstly, the groups need to focus on **preparing a clean and usable dataset**. We expect that all group by the end of this phase:

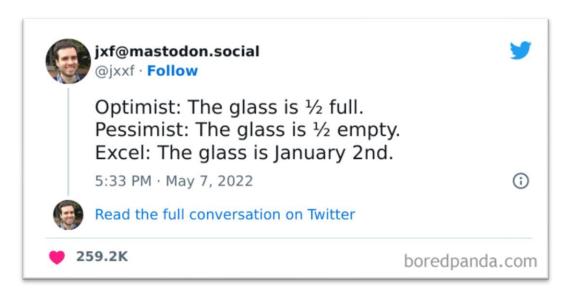
- 1. List the errors found in the dataset
- 2. Suggest **efficient and analytical methods** to solve them

Hints:

- The average expiration days left for "Marca 24" is near 11
- The average days it took to sell "Marca 27" is near 8
- The average new pvp for "Marca 22" is around 1
- The average flow rate for all products is around 53%

Criteria:

Exhaustiveness, Analytical/Technical approach





Now we challenge you to fully dive-into the dataset, understand it and craft an analytical approach for the problem

2nd challenge

Launching from a clean dataset, please answer the following:

3. Develop and create a **Power BI dashboard with more significant KPIs** (EDA, Descriptive analysis, etc)

Criteria:

Relevance, Business sense, Exhaustiveness, Analytical/Technical approach





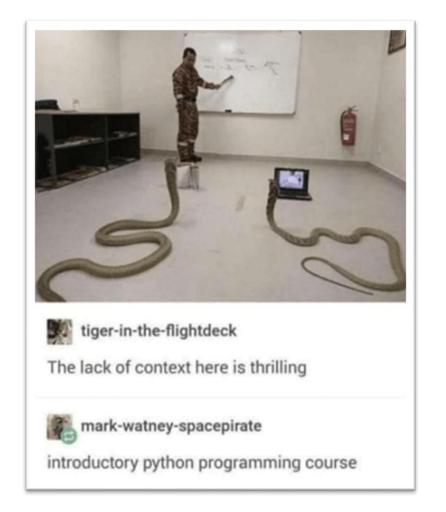
Having the dataset and the approach defined, go ahead and test it

3rd Challenge

- 4. Considering the dataset you have, the business problem and other available data.
 - 4.1. Find the best predictive variables
- 5. Develop a **predictive classification model** that is capable of predicting if a product will be sold (label) considering its discount rate and its characteristics

Criteria:

Analytical/Technical approach, Proficiency demonstrated, Tools selected and their domain, Performance evaluation





The final stage consists of delivering an amazing experience and discussing the results

4th Challenge

6. Prepare a **deck of slides** and deliver a presentation to show your work

Criteria:

Quality of the slides, message clarity and structure, stage presence,





Challenge Summary

- 1st Challenge: Data quality prepare the dataset to work properly
- 2nd Challenge: Descriptive and exploratory analysis Power BI Dashboard
- 3rd Challenge: Machine learning Classification prediction model
- 4th Challenge: Presentation Prepare deck of slides





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EMPOWER EVERY DECISION

WITH ANALYTICS

Contact us:

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