

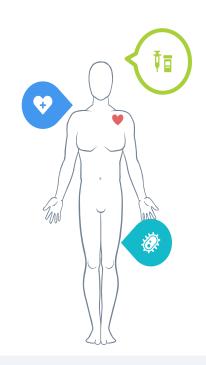


Agenda



Nothing is Small in Personal Care

Complete understanding of customer feedback and review on our products is as important as R&D, Marketing and Sales.



Customers are the No. 1 Priority.

Product feedbacks can help:

- Maintain Positive Brand Image
- Increase Conversion and Sales
- Drive Product Improvement



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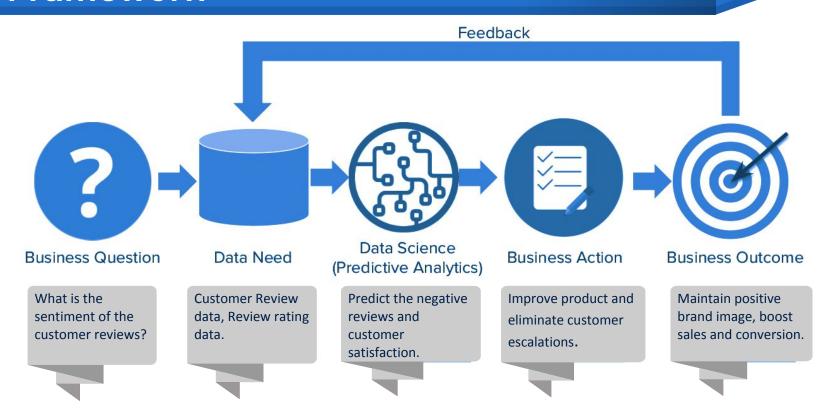
How can we make good use of countless customer reviews generate useful insights from them?

Business Problem Statement



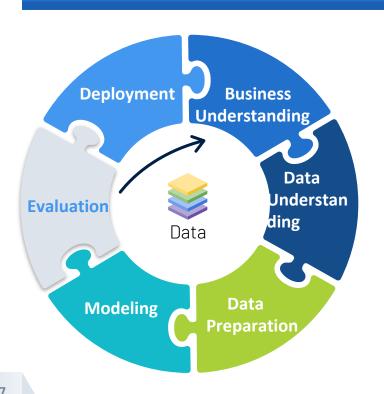


Business Question to Outcome Framework





Applied Data Science Process Model



Business Understanding

Determine objective, situation, goal and plan.

Data Understanding

Collect, describe, explore and verify data.

Data Preparation

Select, clean, construct, integrate and format data (text vectorization for review data) and ensure reproducibility.

Modeling

Binary classification model to predict review sentiment.

Evaluation

Use classification model metrics to review model result and determine next steps .

Deployment

Plan deployment, monitoring and maintenance of the data science approach.



Use Cases



Follow up with Unhappy Customers

Email or callback follow up with unhappy customers.
Listen to their needs and improve their satisfaction rate.



Incentivize Happy Customers

Provide discount and encourage them to stay and buy more. Develop brand loyalty among happy customers.



Drive Continuous Product Improvement

Collect frequently mentioned key words in negative reviews. Leverage customer feedback to improve product design.

Keyword Analysis Table

	Avg. rating 🕝	Sentiment @ =	N° Reviews 🕝 🕏	N° Occurrences ②	Growth
• scam	1.00		12	15	⊳ 0
advertise	1.12		25	27	▶0
• false advertising	1.12		57	62	▼1
advertising	1.14		84	103	▼2
situations	1.14		14	14	▲ 1
downloading	1.17		12	12	▼1
based	1.18		11	12	▼1
• false	1.20		74	92	▼ 3
 advertisements 	1.25		20	22	▲2
click	1.25		12	12	▼1
 actual game 	1.27		15	15	▼1
• rip	1.27		15	17	▲ 1

Thanks!

Any questions?

