

TechDesk

Instructor-XL and LLM powered
Recommendation System

20 August 2023

Market Research

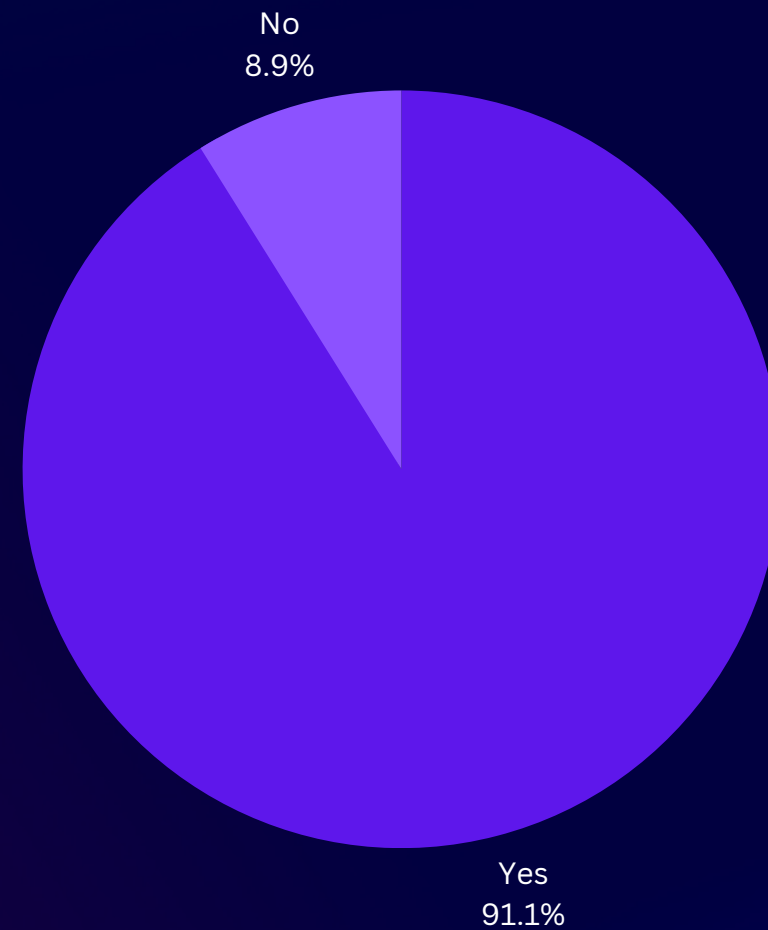
We took some liberty and performed a market research and **survey**.

- > We found that **62%** of people were **NOT** confident in purchasing large ticket items online.[1]
- > This left a large gap that can be covered by solving the problems that are creating the said gap!
- > We then decided to do a survey to find out what these problems were.
- > Let us look at the result of the survey.

1. <https://economictimes.indiatimes.com/industry/services/retail/despite-online-growth-consumers-still-prefer-to-purchase-large-ticket-products-offline>

Results of the **Survey**

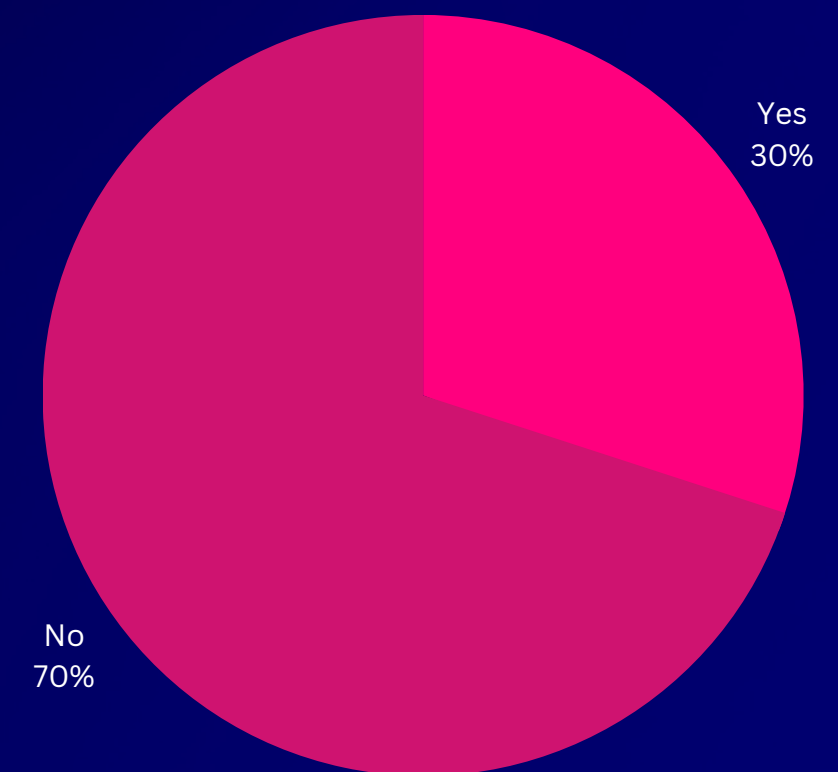
We took some liberty and performed a **market research** and survey.



Would you consider buying online if you were provided expert and personalised advice ?

Have you bought electronics online before?

Grouped by Yes in Q1



Inferences from the Survey

From the data of the survey we drew a few inferences that helped us shape our problem statement.

From the survey we inferred that creating a **personalised conversational recommendation engine** holds significant potential of increasing the sales of the company, especially in the untapped markets.

We will develop this solution using the state of the art **LLMs** and Specialised embedding models.

This solution will have a low initial capital expenditure and operating expenditure compared to hiring and setting up a customer sales relationship executive team.

Solution Stack

Instructor-XL

OpenAI - GPT 3.5 Turbo

Google- flan t5 xxl

LangChain

StreamLit (Prototyping)

FAISS

Why? Because They're The Best.

Massive Text Embedding Benchmark (MTEB) Leaderboard. To submit, refer to the [MTEB GitHub repository](#). Refer to the [MTEB paper](#) for details on metrics, tasks and models.

- Total Datasets: 129
- Total Languages: 113
- Total Scores: 12702
- Total Models: 109

Overall Bitext Mining Classification Clustering **Pair Classification** Reranking Retrieval STS Summarization

English Chinese Polish

Pair Classification English Leaderboard 🏆

- Metric: Average Precision based on Cosine Similarities (cos_sim_ap)
- Languages: English

Rank	Model
1	instructor-xl
2	gtr-t5-xl
3	gtr-t5-xxl
4	sentence-t5-xl
5	e5-large-v2

THE NEW STACK

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Jun 1st, 2023 10:57am by [Richard MacManus](#)

AI

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Ron Miller [@ron_miller](#) / 9:30 PM GMT+5:30 • October 5, 2021

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google / **flan-t5-xxl** like 862

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Model card Files and versions Community 52

Model Card for FLAN-T5 XXL

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Instruction finetuning

Now the Demo!