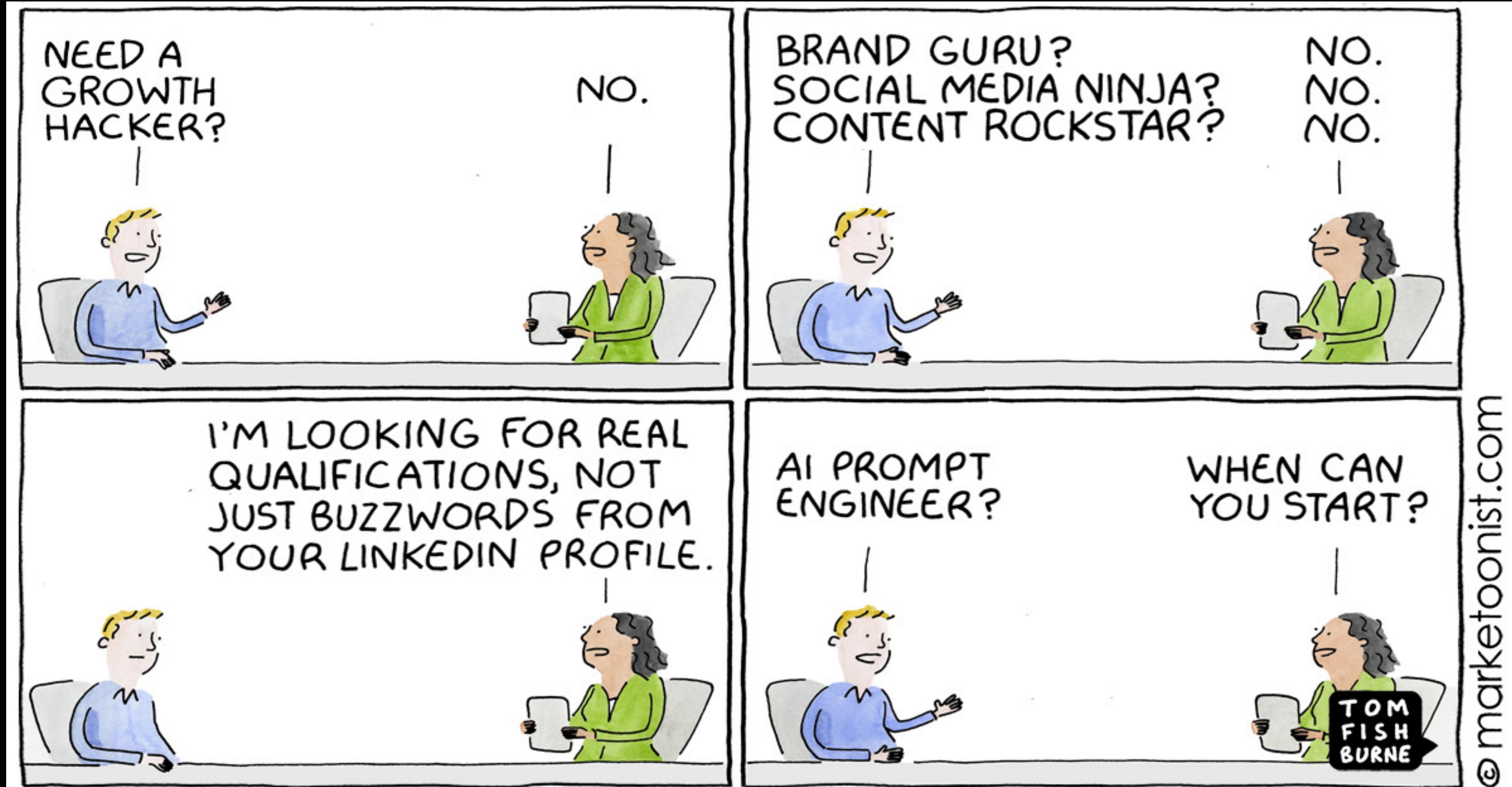


Artificial  
Intelligence for  
Education

Low Code/No Code  
with ChatGPT

<https://github.com/iportilla/lowcode>

# Let me tell you a story ...



# Agenda

- Introductions
- ChatGPT 101
- Business Examples
- Exercise

# Introductions



Jenna



Sean



Iván

# Agenda

- Intros
- ChatGPT 101
- Business Examples
- Exercise



embodied & autonomous



life partner

Our expectations  
are out of sync  
with reality





*yikes.*

# Brief history of AI

**Artificial Intelligence**

**Machine Learning**

**Deep Learning**

**Generative AI**



**Artificial Intelligence**

Intelligence demonstrated by machines



**Machine Learning**

Learn from data



**Deep Learning**

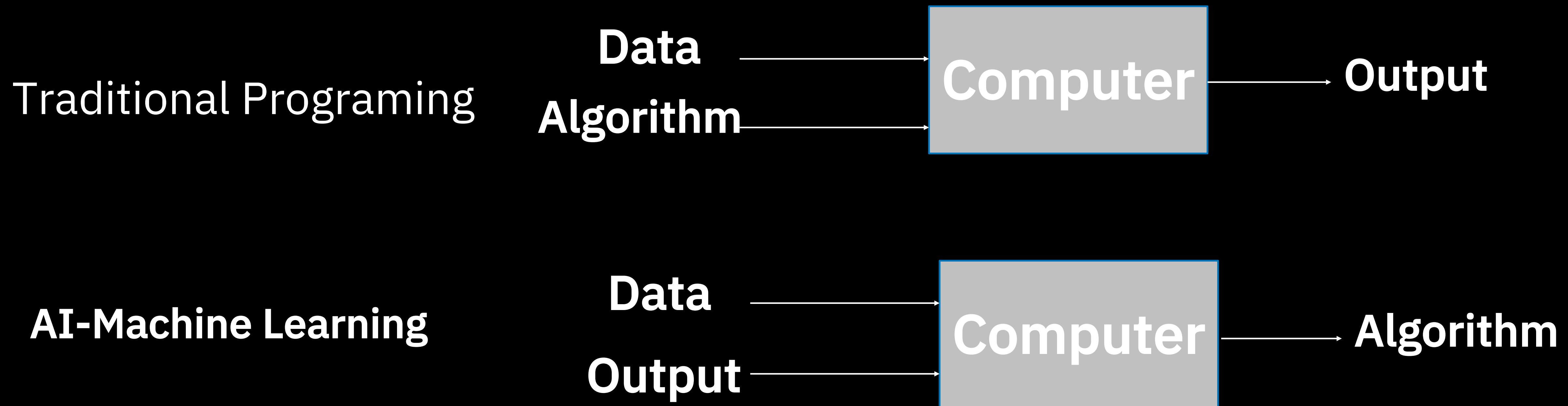
Model after the human brain (Neural Networks)



**Generative AI**

Create new written, visual, and auditory content

# Why Machine Learning?

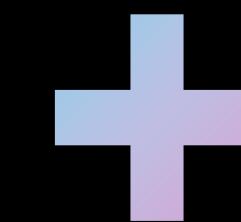


ML provides systems the ability to **automatically** learn from **experience** (without being explicitly programmed)

# MSFT partnership with OpenAI



*Ensure that artificial general intelligence (AGI) benefits humanity.*



*Empower every person and organization on the planet to achieve more*

**GPT-3**

Generate and Understand Text

**Codex**

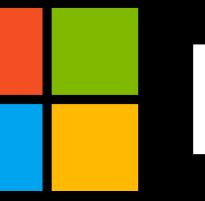
Generate and Understand Code

**DALL·E**

Generate images from text prompts



OpenAI



Microsoft

## Generative AI

GPT-3

Prompt:

Write a tagline for an ice cream shop.

Response:

We serve up smiles with every scoop!

Codex

Prompt:

```
Table customers, columns =  
[CustomerId, FirstName,  
LastName, Company, Address,  
City, State, Country,  
PostalCode]
```

Create a SQL query for all customers in Texas named Jane  
query =

Response:

```
SELECT *  
FROM customers  
WHERE State = 'TX' AND  
FirstName = 'Jane'
```

DALL·E

Prompt: A white Siamese cat

Response:





530B

Megatron-Turing  
NLG | 2021

175B

GPT-3 | 2020

17B

Turing-NLG | 2020

340M

BERT-Large | 2018

Demos

# Future of AI Example (Semantic Analysis)

## The Wining Shot

The soccer game was nearly over. The two teams were tied, one to one.

Alice kicked the ball. Oops! She kicked it the wrong way.

"What a bad kick," Alice thought.

But wait!. Her teammate John jumped to stop the ball. The ball went off John into the goal!.

Alice's team won the game. Hooray! It was not a bad kick, after all.

Who won the game?

Why?

## The Wining Shot

The soccer game was nearly over. The two teams were tied, one to one.

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Alice's team won the game. Hooray! It was not a bad kick, after all.

Who won the game?

Answer: Alice's team  
**Correct**

Explanation: Alice's team won the game because Alice's team had more points than the other team

✓ **Correct**

# ChatGPT

JE

read this: The Wining Shot

The soccer game was nearly over. The two teams were tied, one to one.

Alice kicked the ball. Oops! She kicked it the wrong way.

"What a bad kick," Alice thought.

But wait!. Her teammate John jumped to stop the ball. The ball went off John into the goal!.

Alice's team won the game. Hooray! It was not a bad kick, after all.

# ChatGPT

JE

who won the game



Alice's team won the game, even though Alice initially thought she had made a bad kick. John's quick thinking and intervention helped the team to score the winning goal, and they were able to secure victory in the game.

JE

why?



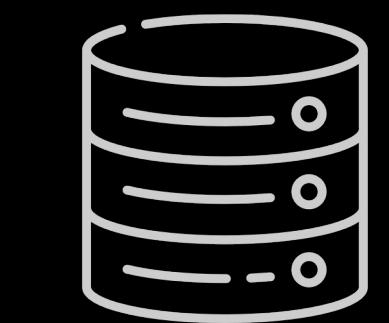
Alice's team won the game because John was able to use his skills and reflexes to intercept the ball, even though Alice's kick was not aimed in the right direction. John's intervention caused the ball to go into the goal, which resulted in a score for Alice's team. Since this happened near the end of the game and there was no time left for the other team to catch up, Alice's team won the game with a score of 2-1.

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# Sports & Entertainment Example

Natural language to SQL to surface stats data (Fan Engagement)



Sports Stats  
Database



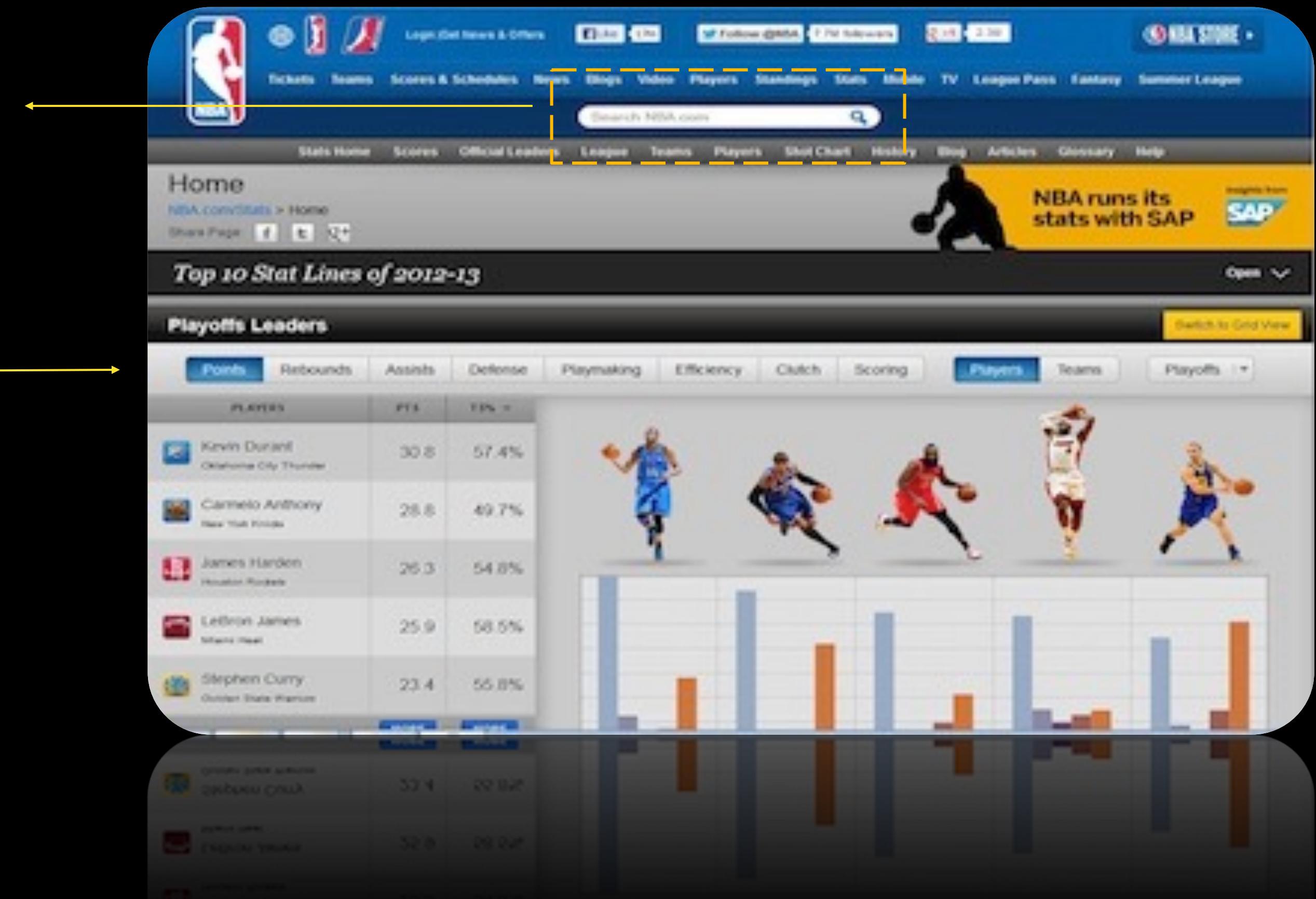
Azure  
OpenAI  
Codex

"How many points did Lebron James score in 2021?"

```
SELECT SUM(points) FROM basketball_stats WHERE player = 'LeBron James' AND game_date BETWEEN '2021-01-01' AND '2021-12-31';
```

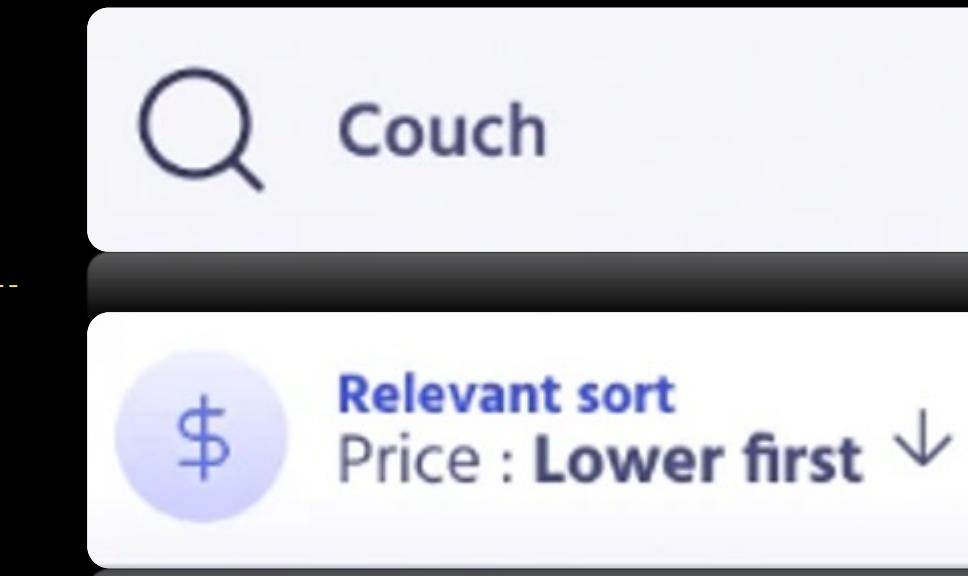
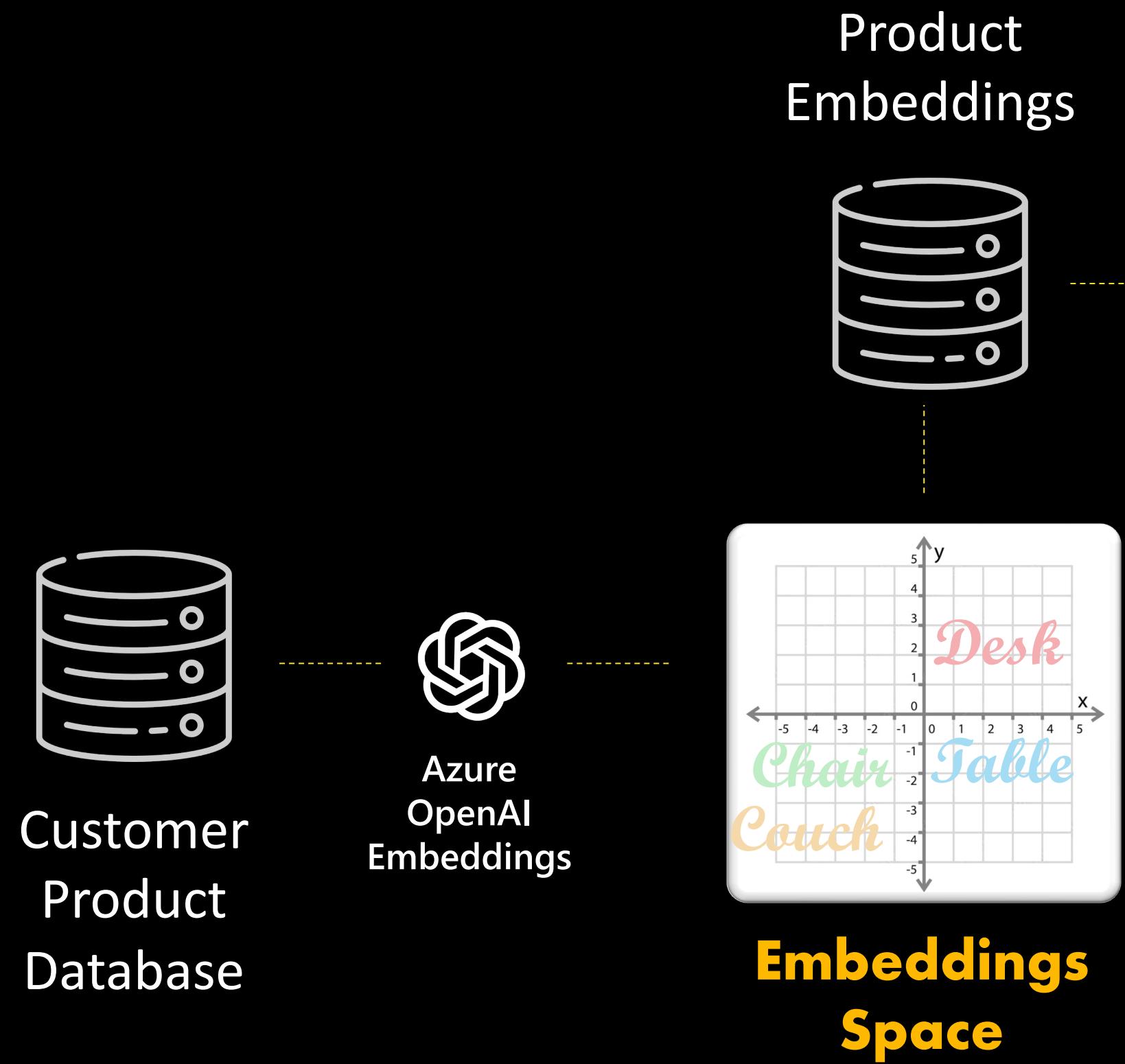
basketball\_stats (player, team, points, rebounds, assists, steals, blocks, turnovers, games\_played)  
("LeBron James", "Los Angeles Lakers", 25, 7, 10, 1, 0, 3, 82), ("Kevin Durant", "Brooklyn Nets", 30, 7, 4, 1, 2, 3, 72)

basketball\_games (home\_team, away\_team, home\_score, away\_score, game\_date)  
("Los Angeles Lakers", "Brooklyn Nets", 110, 105, '2021-12-01'),  
("Milwaukee Bucks", "Golden State Warriors", 120, 115, '2021-12-02')

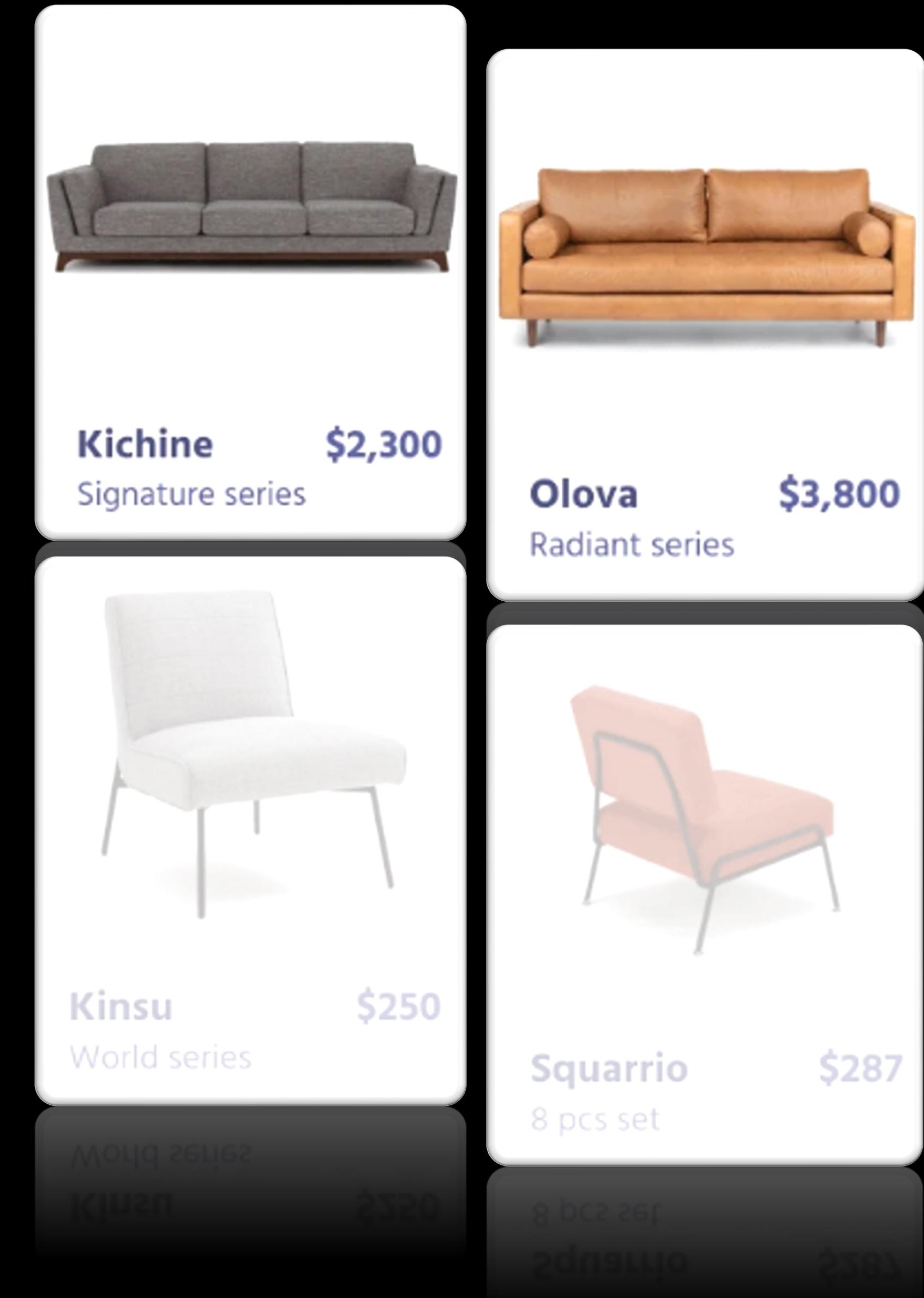


# Retail Example

## Similarity Search



## Similarity Search



Demos

Thank you