

# Generative Al in Ecommerce





#### Hiền Phan

Senior Director, Consumer technology @Tiki Software Engineering, K51 @Soict



#### Agenda

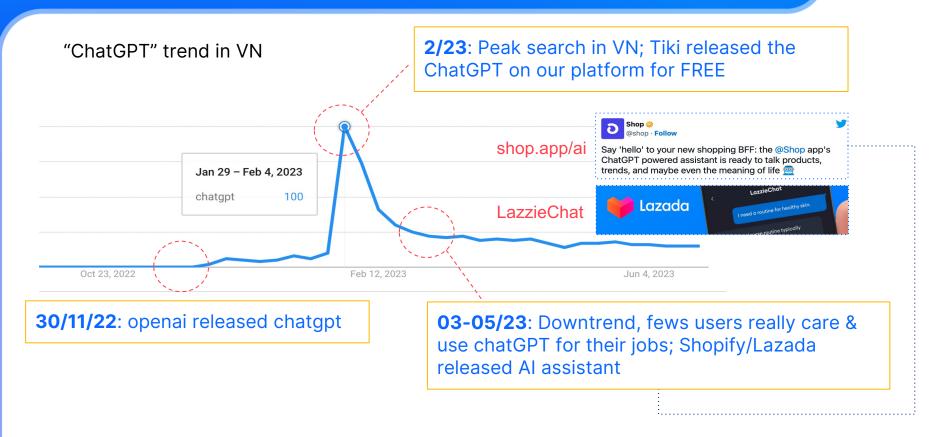
- The trend and the way e-com companies react
- What we are doing with generative Al
- Challenges and opportunities





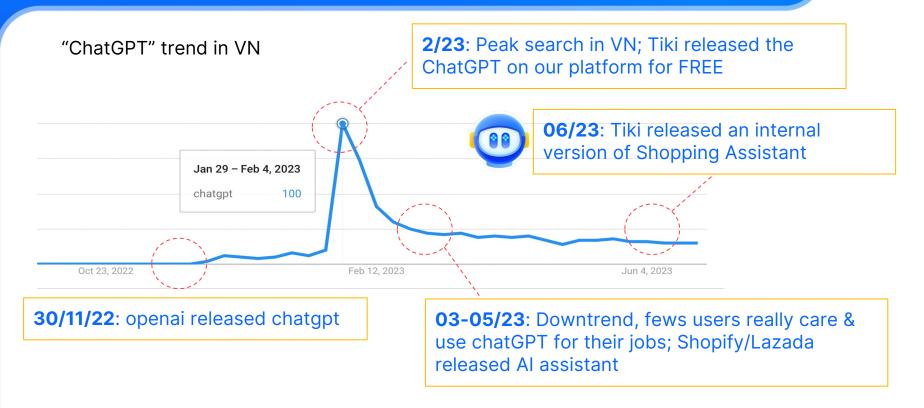
30/11/22: openai released chatgpt





Source: https://trends.google.com/trends/explore?geo=VN&q=chatgpt&hl=en







#### What is behind the trend

• The race in developing foundation models between big techs



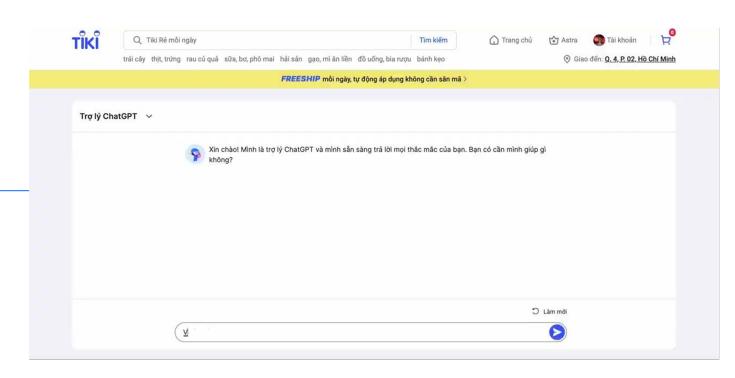
- **INVIDIA**
- Many e-com companies try to apply generative AI to improve their products
- Not many people really use Generative AI to improve their works





#### General Al chatbot

Integrate ChatGPT, then our customers can use it for free



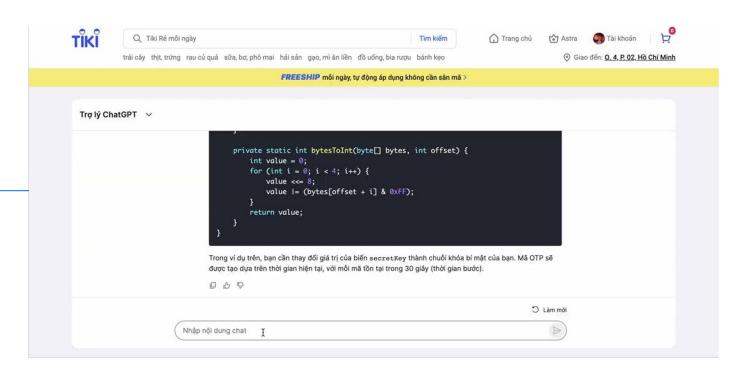




#### General Al chatbot

Integrate ChatGPT to let our customers can use for free

Outdated data



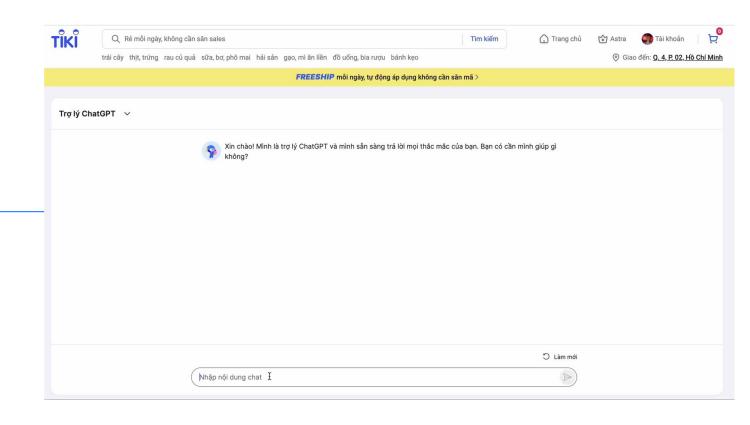




#### General Al chatbot

Integrate ChatGPT to let our customers can use for free

- Outdated data
- Hallucinations (Bịa nội dung)











General Al chatbot

Customer service

Shopping assistant

Integrate ChatGPT to let our customers can use for free Answers the question related to our services

Understand the conversation, help to finding the relevant products

After many changes, we are here!!!

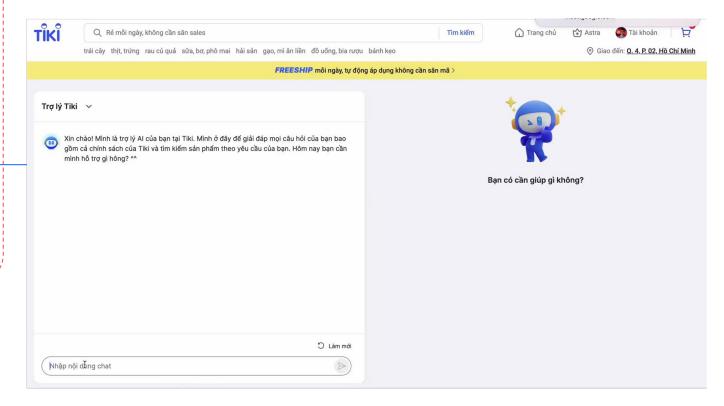




Tiki assistant

Customer support
Shopping assistant

#### Right answers about our services, products



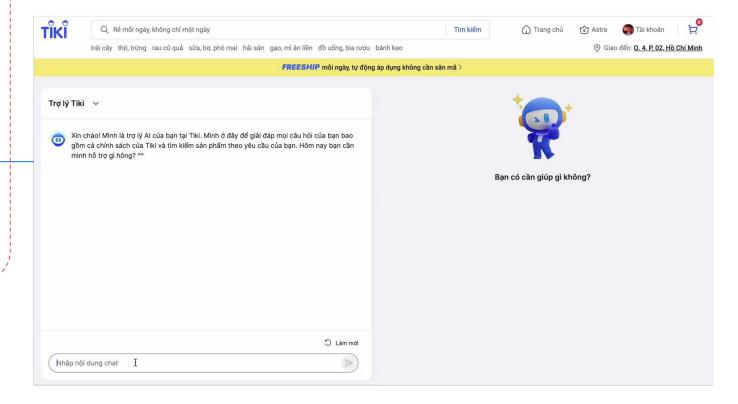




Tiki assistant

Customer support
Shopping assistant

#### Recommendations based on conversation



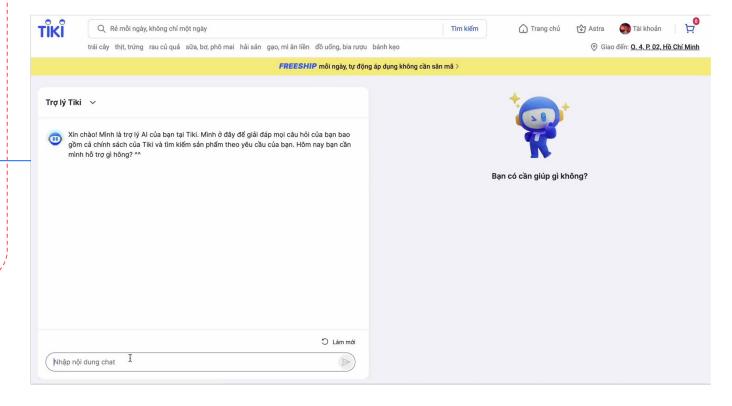




Tiki assistant

Customer support
Shopping assistant

#### Product comparison













General chatbot

Customer service

Shopping assistant

Embedded shopping assistant

Integrate ChatGPT to let our customers can use for free

Answers the question related to our services

Understand the conversation, help to finding the relevant products

Realtime support in all touch points of customer journey

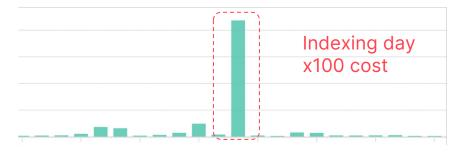
- What is good/not good
- Summarize the reviews
- Personalizations

### **Challenges & opportunities**



#### 1 High cost & payment issues

- More data, pay more \$
- More context, pay more \$
- More customers, pay more \$



#### ChatGPT 3

Model	Input	Output
4K context	<b>\$0.0015</b> / 1K tokens	<b>\$0.002</b> / 1K tokens
16K context	<b>\$0.003</b> / 1K tokens	<b>\$0.004</b> / 1K tokens

- Not official support VNM account
- Cannot pay with VNM credit/debit card
- Usage limit (everytime when you want to increase your limit, submit a form)



→ Not OK for high scale systems

#### **Challenges & opportunities**



2 Poor performance

Most of apis take seconds to finish



5 Data privacy

All data sent out as plaintext

3 Limit context length

4K/16K/32K tokens ~ 3K/12K/24K words

→ More context, better answering.

- 4 Not work well with vietnamese
  - Only openai is qualified for VNM (but still not good as ENG)
  - Most of open source LLM models do not work with VNM

### **Challenges & opportunities**



ALL CHALLENGES → OPPORTUNITIES



## Thank you for your attention

### Tiki Assistant high level design



