



PRONAVIGATOR

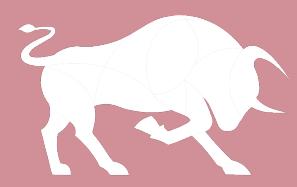
AI-POWERED SALES ASSISTANT

BUILT FOR INSURANCE

Joseph D'Souza

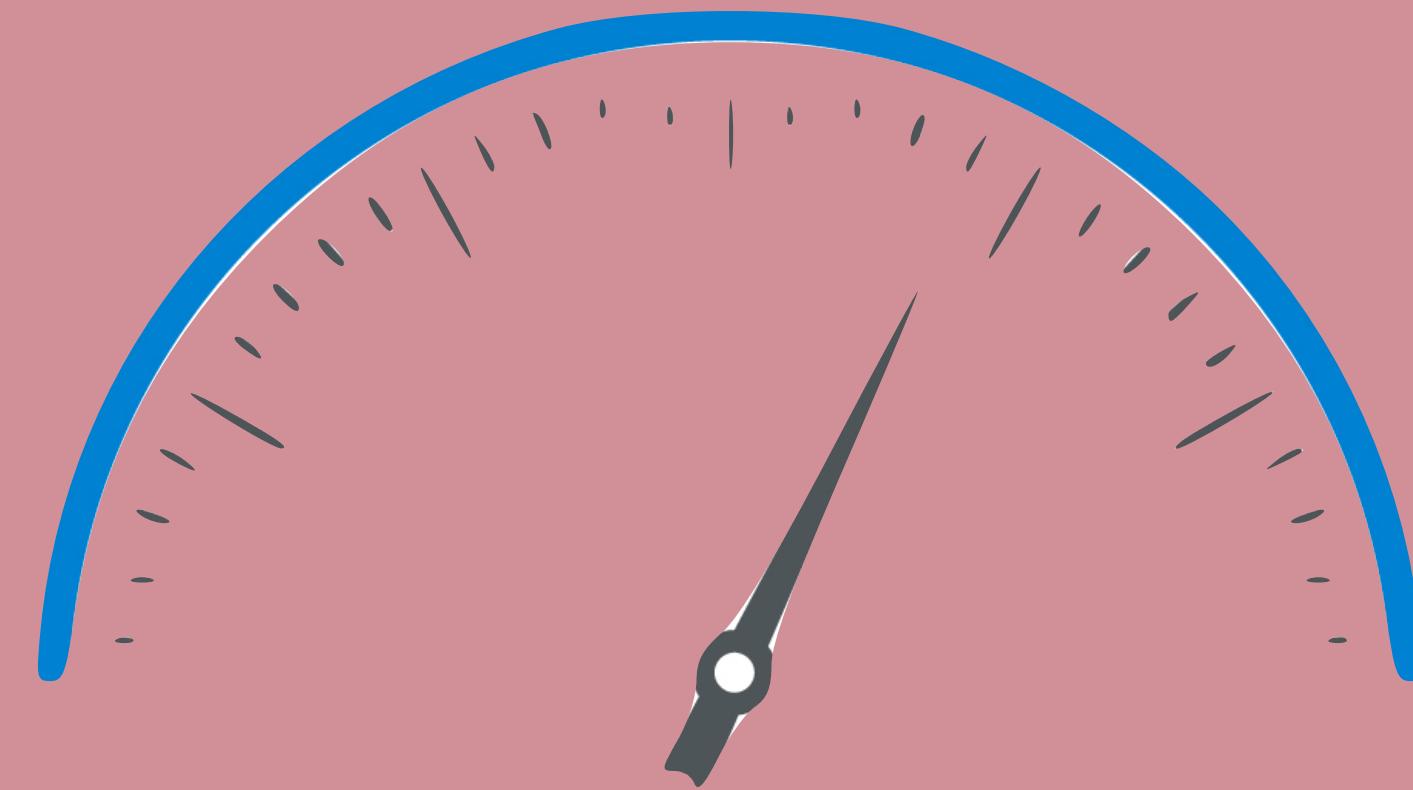
Founder/CEO

joseph@pronavigator.io



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WE ARE LIVING IN A DIFFERENT ERA



SPEED

+

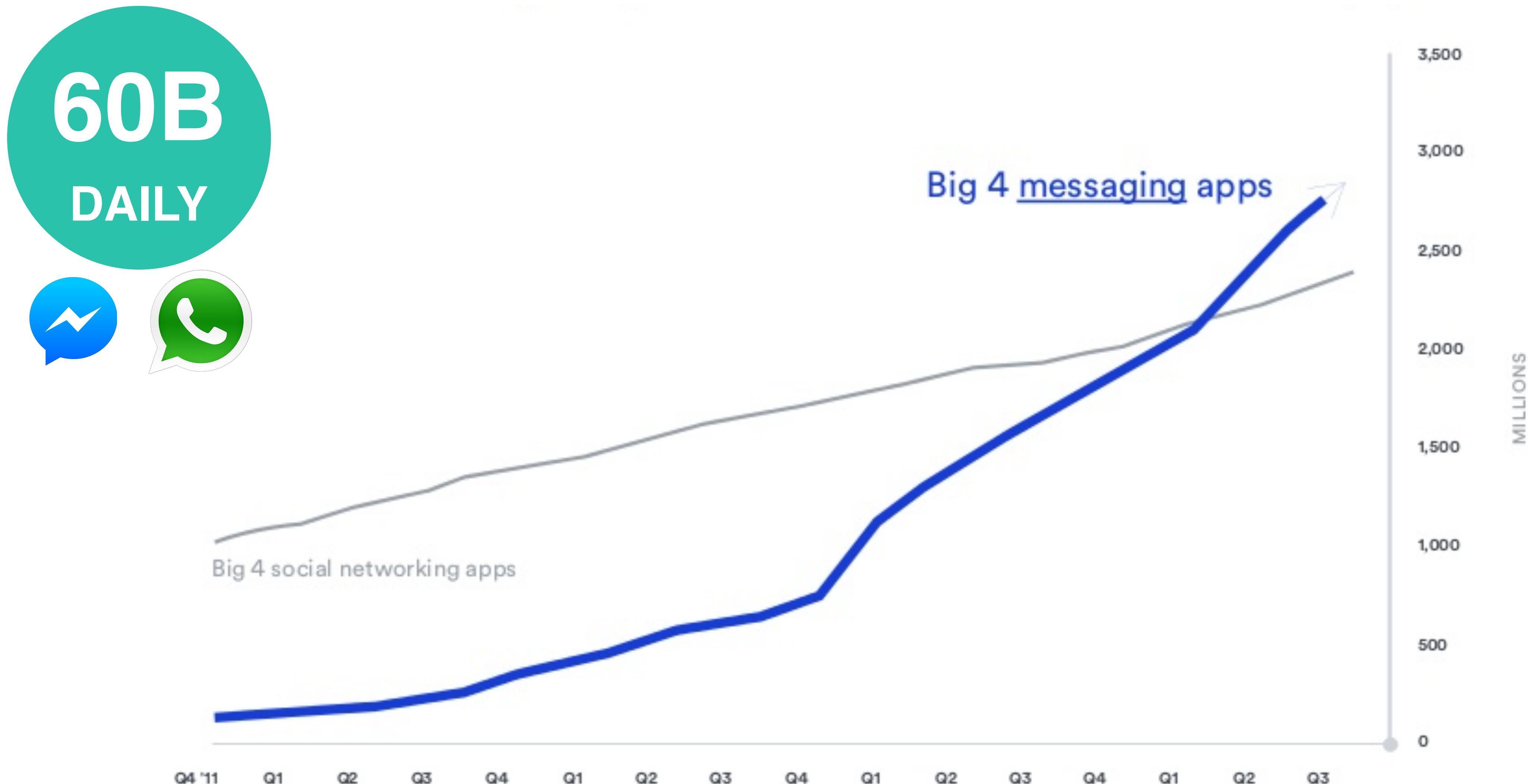


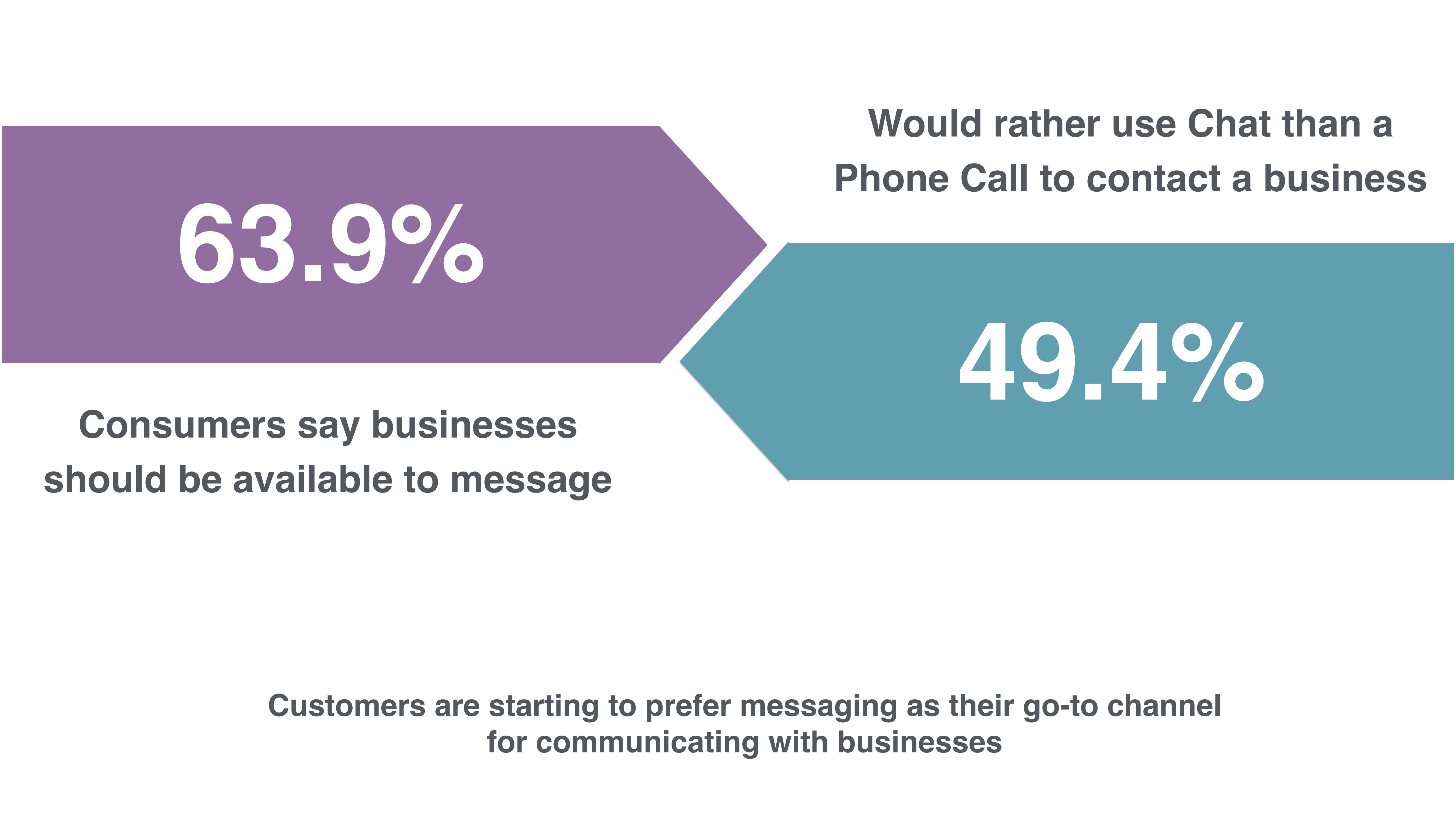
CONVENIENCE

MISSION:

**Be the world's leading conversational AI platform between
customers and Insurance companies!**

MESSAGING HAS EXPLODED





63.9%

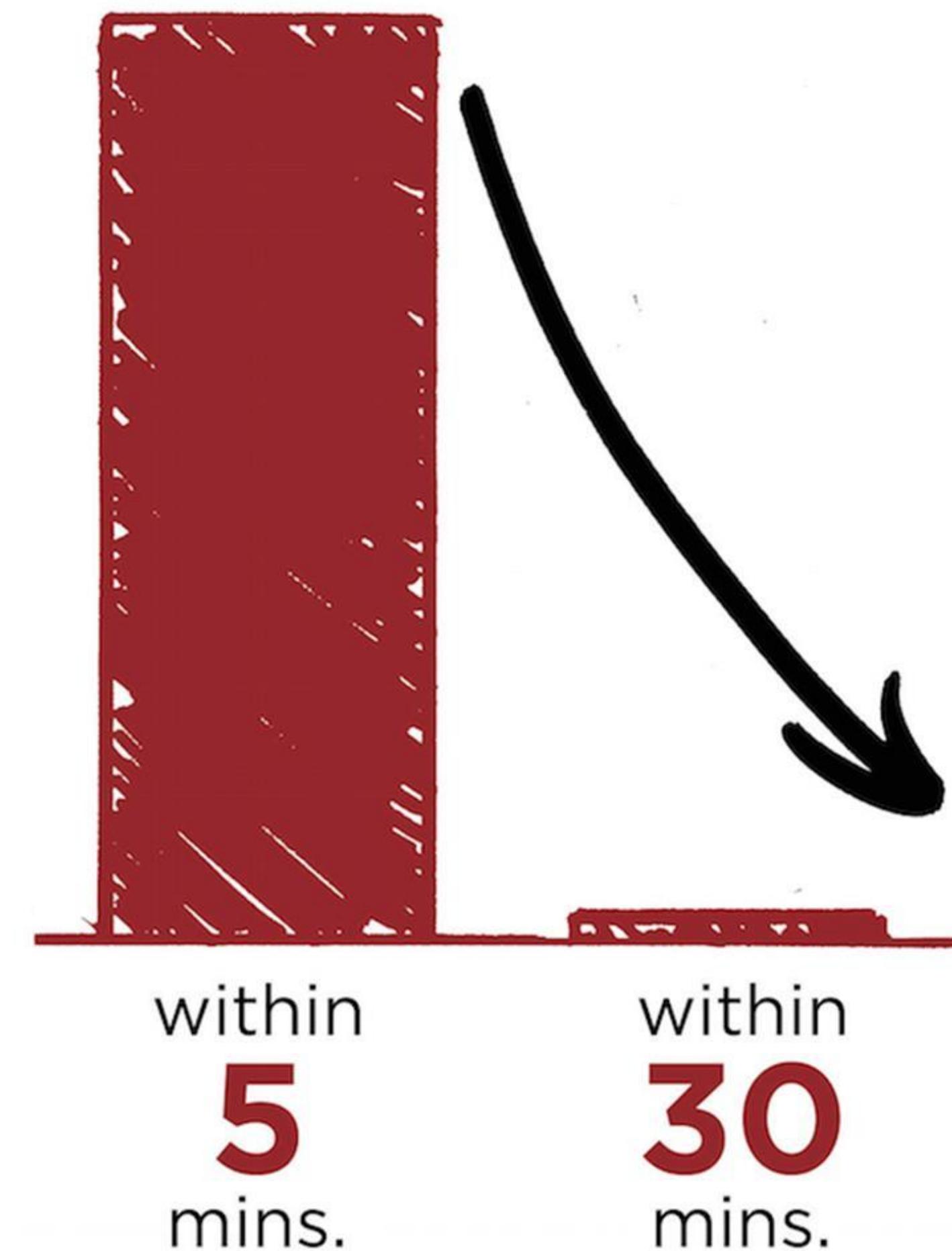
**Would rather use Chat than a
Phone Call to contact a business**

49.4%

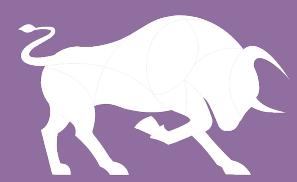
**Consumers say businesses
should be available to message**

**Customers are starting to prefer messaging as their go-to channel
for communicating with businesses**

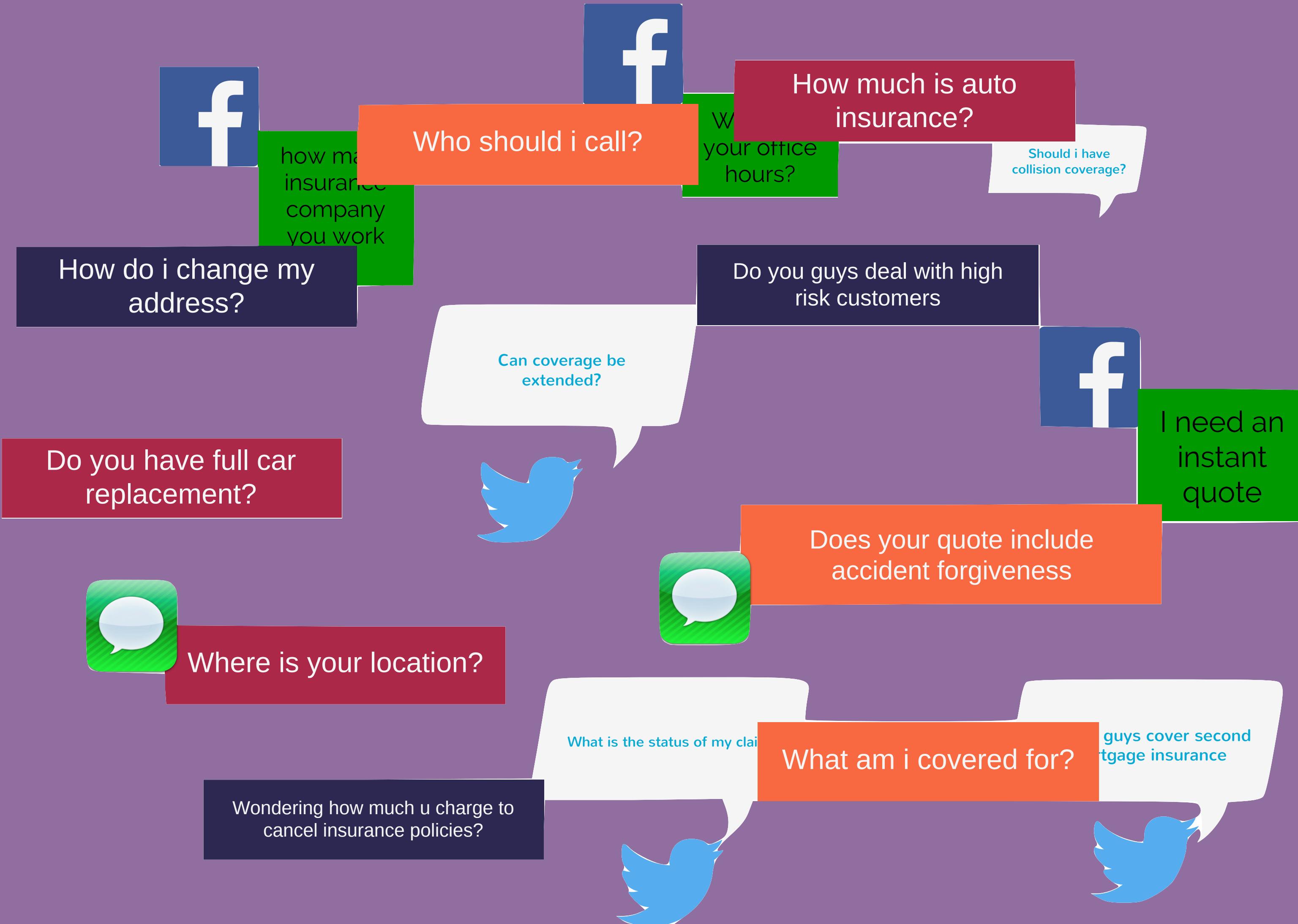
IMPACT OF RESPONDING QUICKLY



**10X
RULE**

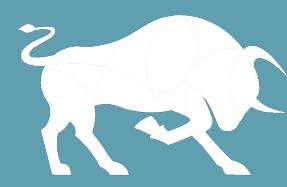


HOW DO YOU SCALE MESSAGING



\$4
per Chat

\$6-20
per Phone



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MAJOR HISTORICAL WORK ERA'S



HUNTER-GATHERER



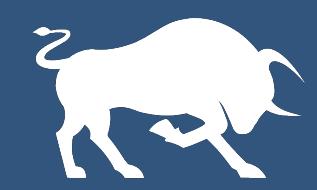
AGRICULTURAL



INDUSTRIAL

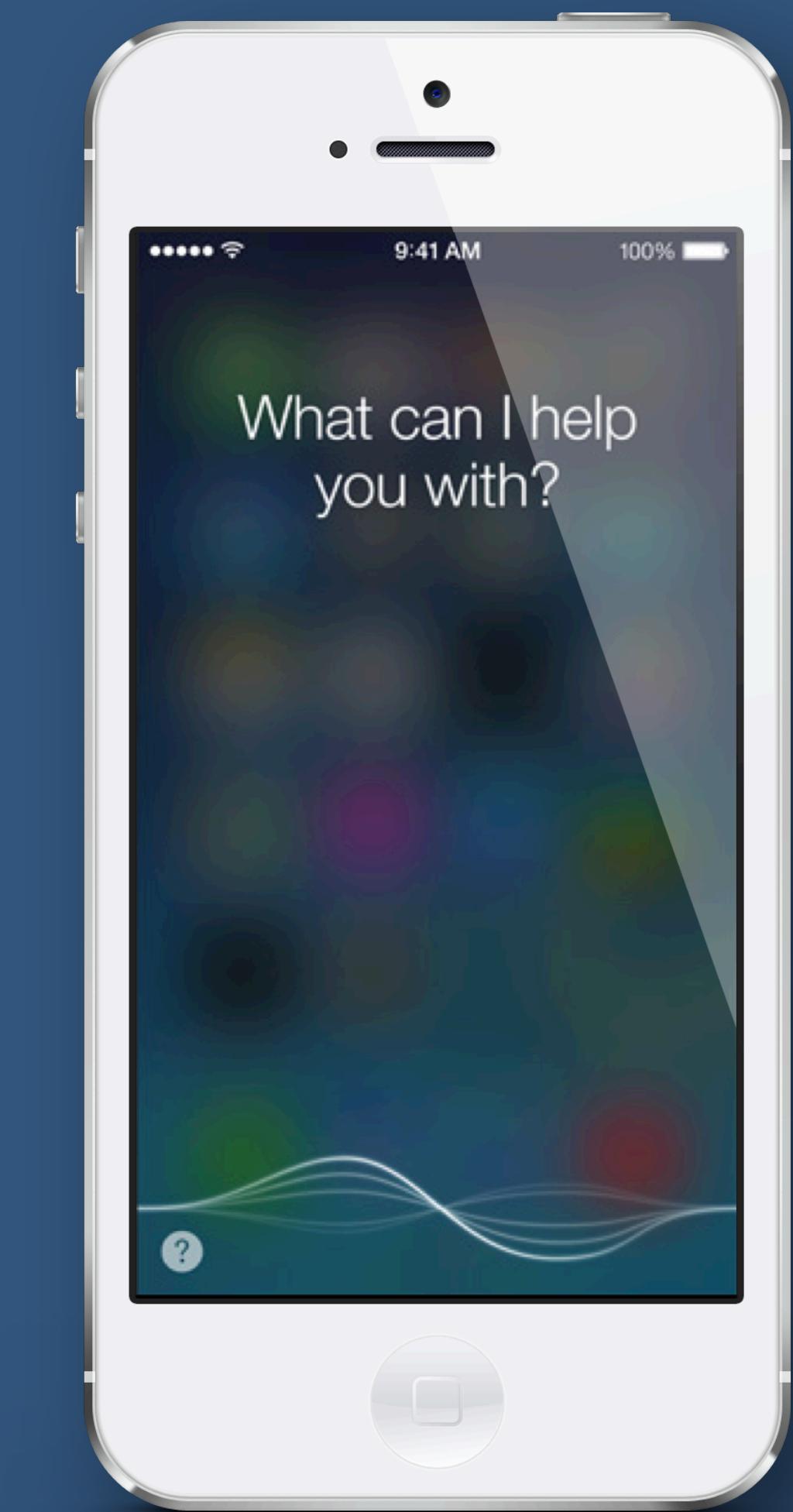


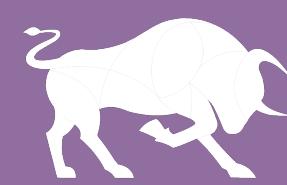
INFORMATION



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AUGMENTED AGE





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LEVERAGE AI AND CHATBOTS

How can we help? X

Who would you like to contact? Please type both first and last name.
a few seconds ago

 Joseph dsouza
a few seconds ago

Give me a sec, I will look them up for you!
a few seconds ago

Joseph Dsouza can be reached at 647-739-6383
a few seconds ago

Their primary location is Kitchener - Canada
a few seconds ago

 Joseph Dsouza's email address is joseph@pronavigator.io
a few seconds ago

Type 'Hi' to start! Send

How can we help? X

No

Lucy
That's all the info I need. Here is your estimate:

Your Estimated Quote
\$215.92 / month

What's included:

- General Liability
- Tools & Equipment
- Business Contents
- Data & Privacy Coverage

Type a message... Send

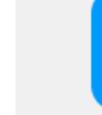
Chat with us here! X

i need to make a payment

Pinnacle Point
Happy to help, which provider are you with?

 safeco

Pinnacle Point
Great, here's the link to make a payment directly.

 Safeco Insurance

Or you can call them to make payments at 888.723.3260

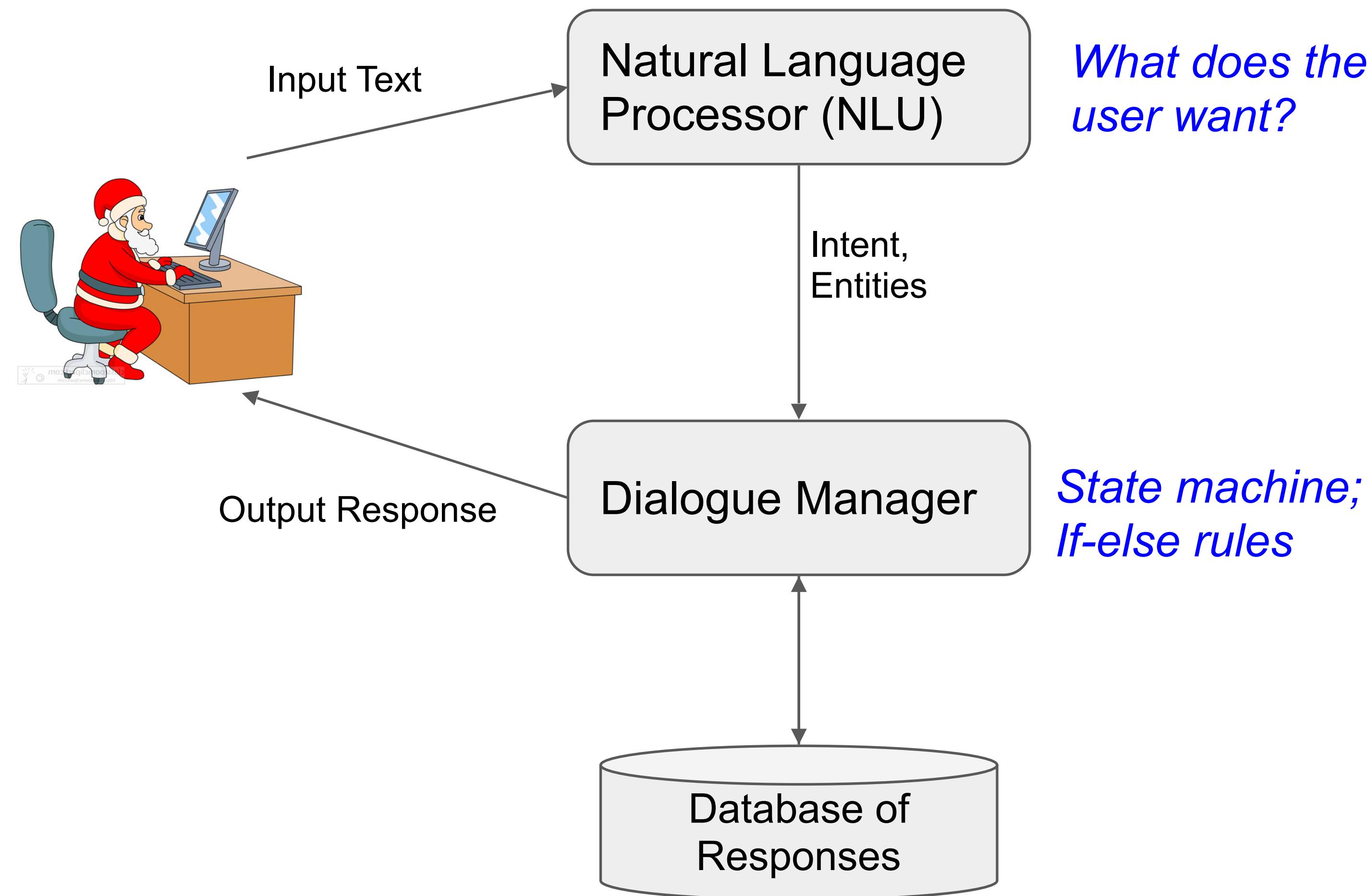
Type Hi to get started Send

Use Chatbots to Qualify Leads, Deflect Tickets and Increase Customer Satisfaction

Natural Language Understanding (NLU) for Dialogue Systems

Nabiha Asghar
Ph.D. student @ UW
Data Scientist @ ProNavigator

What's a dialogue system?



Natural Language Understanding

What is the intent of a text?

“I want an auto insurance quote” (intent = get_quote)

vs.

“Do you sell policies outside Canada?” (intent = FAQ_location)

What are the useful entities in a text?

*“I want **car** insurance”*

vs.

*“I want **home** insurance”*

Intent Classification

Input: “*Do you provide auto insurance in Ontario?*”

Output: one element from the set
*{get_quote, get_contact_info,
FAQ_location, FAQ_eligibility, }*

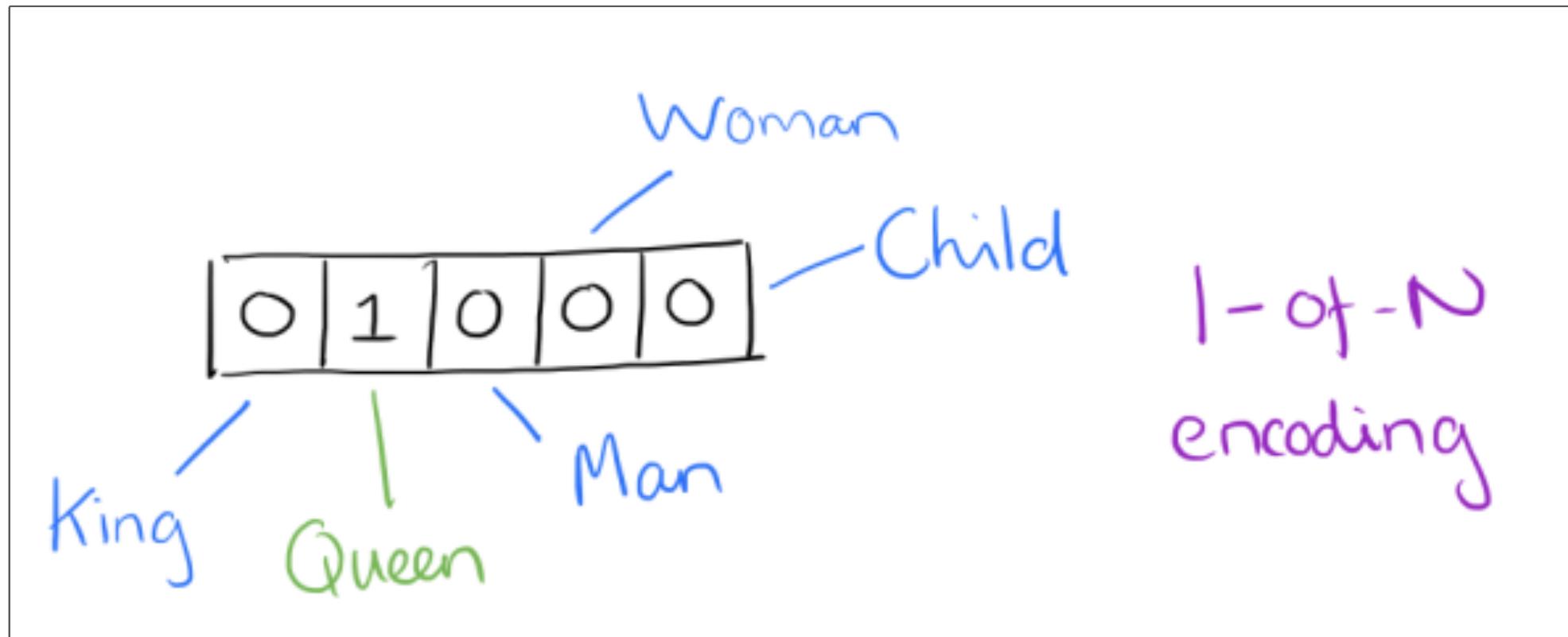
Named Entity Recognition (NER)

Input: “*Do you provide auto insurance in Ontario?*”

Output: For each word in input,
produce an element from the set
*{NULL, insurance_type,
province_name, person_name,
number, date, }*

Intent Classification & Named Entity Recognition (NER)

Key Idea: Model a sentence as a sequence of ‘word vectors’ (Word2Vec, GloVe)



One-hot encodings of words

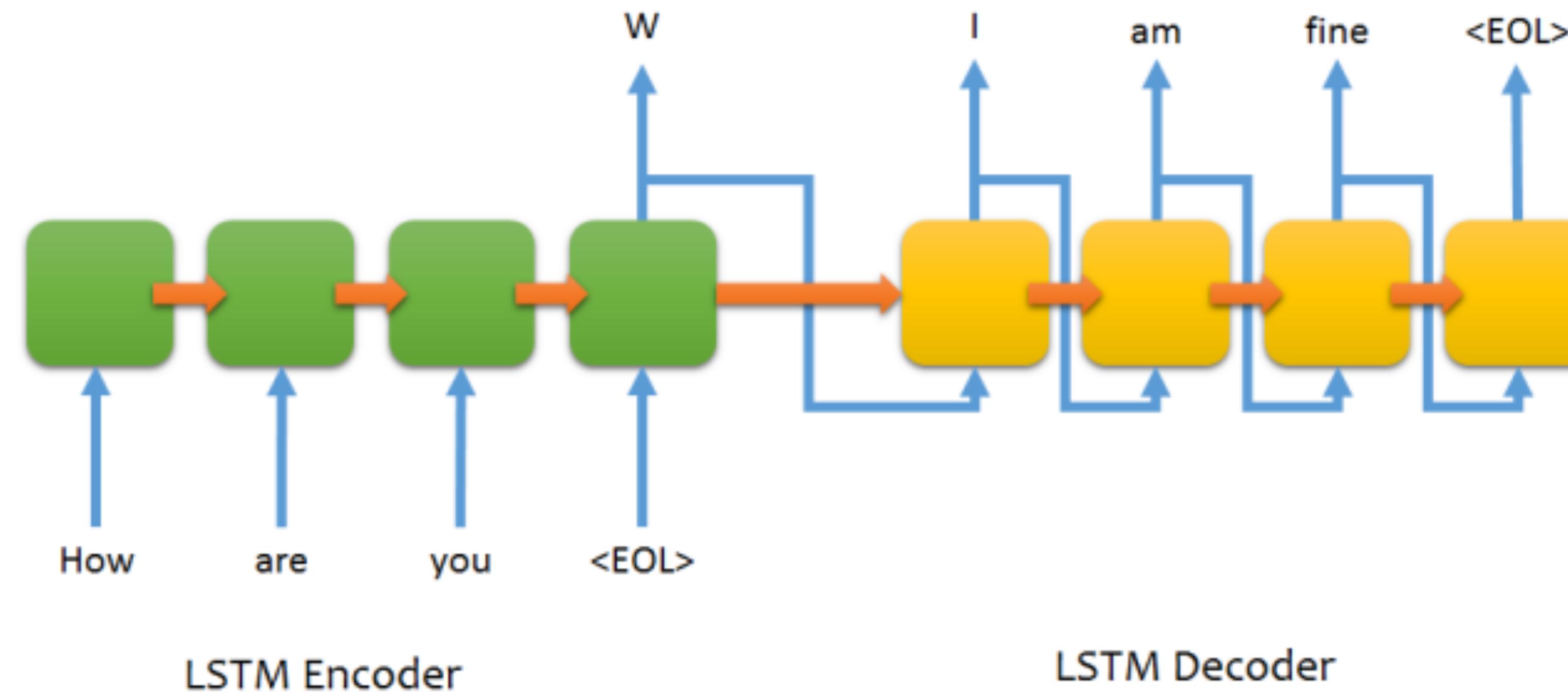


Word vectors

Features: Word Vectors

Classification Algorithms: Conditional Random Fields, SVMs, etc

Text Generation using Recurrent Neural Networks

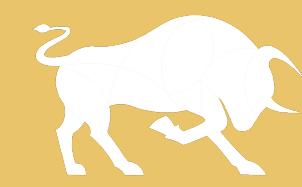


Some Key Research Challenges

- Develop hybrid retrieval-generative approaches
- Online active learning [1]
- Generate emotionally appropriate responses [2]
- Email auto-response generation
- Transfer Learning across multiple Insurance verticals (e.g. Home vs. Auto)
- Voice Support
- Multi-language support
- ... and many more!

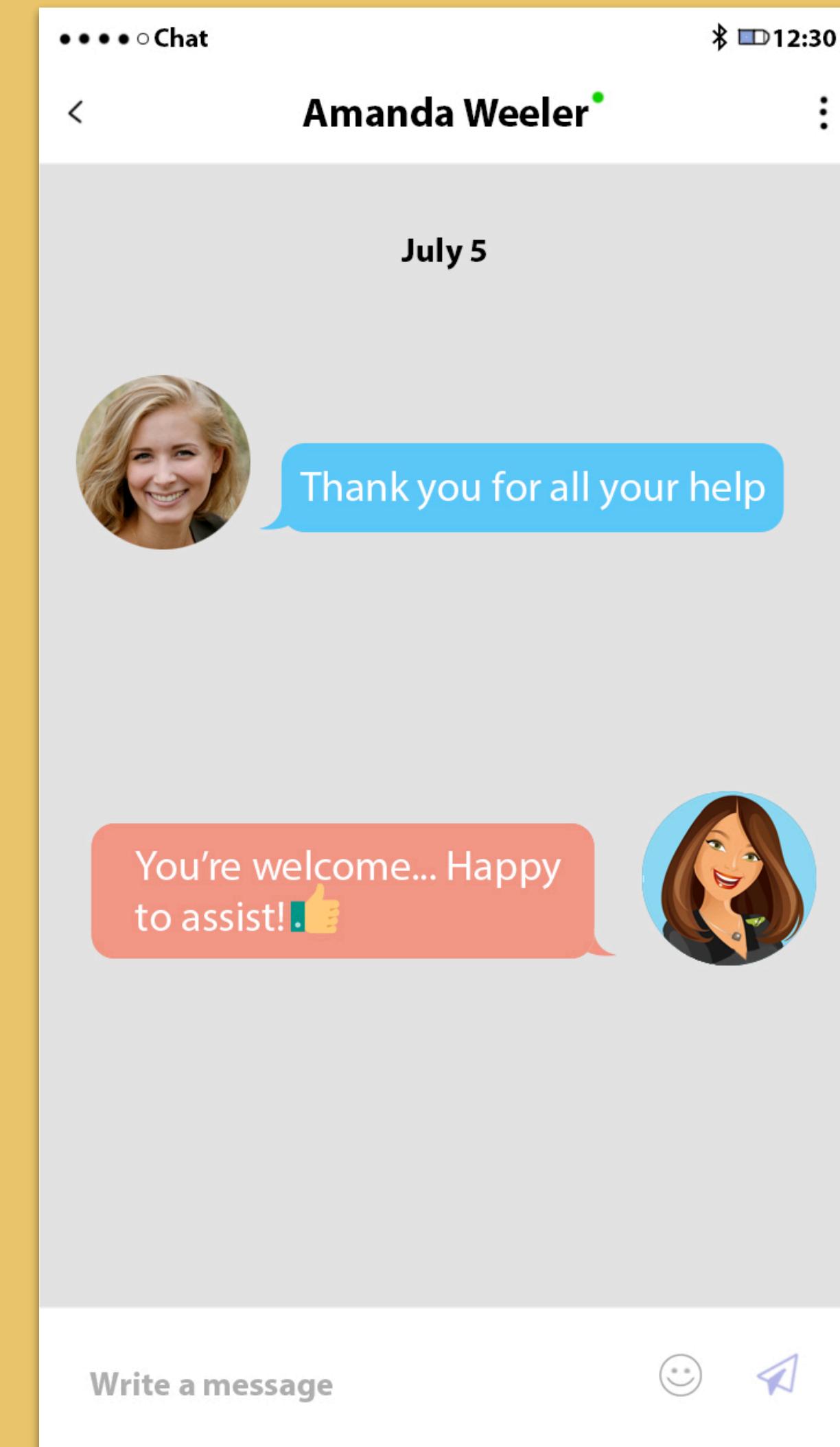
[1] Nabiha Asghar, Pascal Poupart, Xin Jiang, Hang Li. [Deep Active Learning for Dialogue Generation](#). Proceedings of the 6th Joint Conference on Lexical and Computational Semantics (*SEM), Vancouver, August 2017.

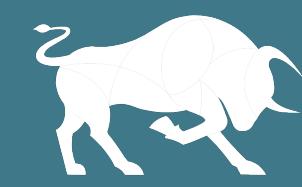
[2] Nabiha Asghar, Pascal Poupart, Jesse Hoey, Xin Jiang, Lili Mou. [Affective Neural Response Generation](#). Proceedings of the 40th European Conference on Information Retrieval (ECIR), Grenoble, France, March 2018.



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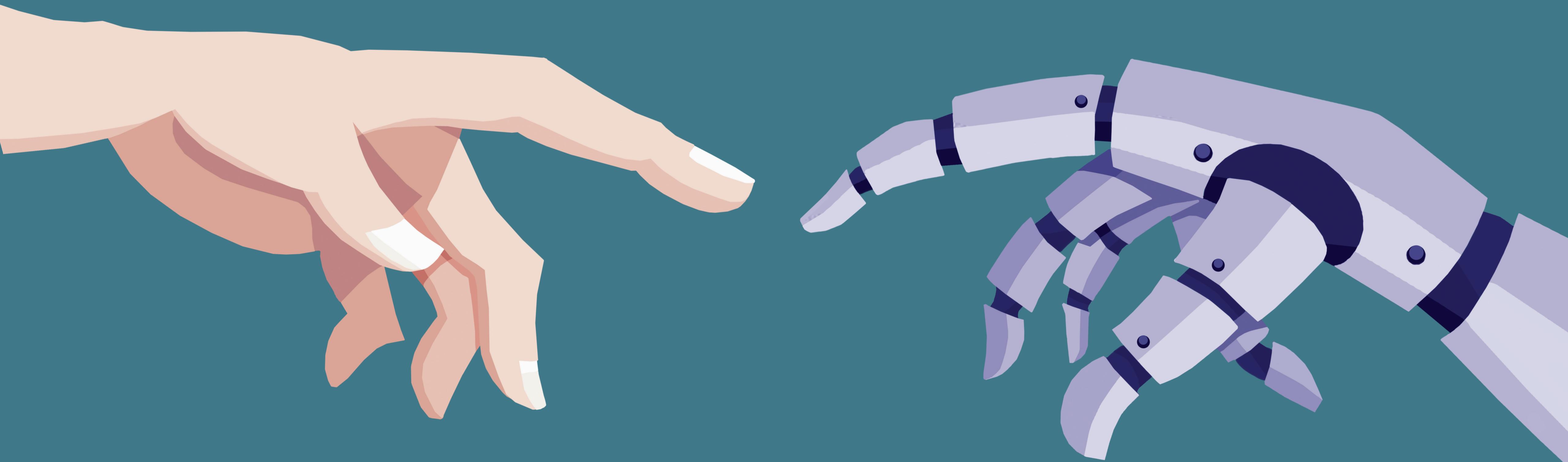
“THANKS”

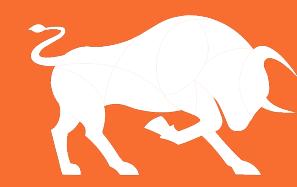




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HUMANIZING TECHNOLOGY





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WE ARE HIRING

JOB POSTING ON
WATERLOO WORKS

or Email

contact@pronavigator.io