

conversational Al for entrepreneurs

Refugee Learning Accelerator November 2017

ABOUT US

Rasa is the leading open source conversational AI company and combines enterprise needs with cutting edge research

Rasa Technologies is the leading open source conversational AI company for the enterprise.

Our advanced open source Rasa Stack is used by developers to build intelligent bots and assistants. It is trusted by thousands of companies worldwide. Additionally, leading companies such as UBS, Helvetia and ERGO trust the Rasa Platform, which provides enterprise-grade features and support for deploying the Rasa Stack in a large organisation.

We're a tight-knit, fast-moving team of researchers, engineers, designers and product people, with extensive experience in machine learning, natural language processing and rapid product design.



Founders:

Dr. Alan Nichol (CTO)
Alexander Weidauer (CEO)



Headquarter:

Berlin, Germany

Investors:





Customers running Rasa in production:





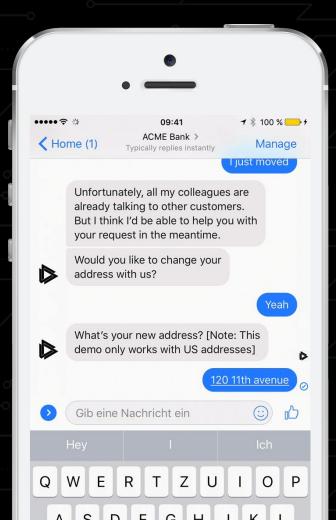




Conversational AI will dramatically change how your customers interact with you.

Example: A customer can change her address via Facebook Messenger

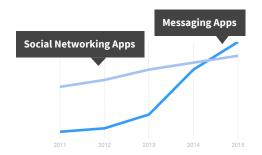






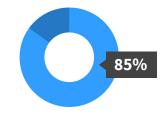
MARKET TRENDS

Leading enterprises have started to invest significantly into custom solutions for conversational AI



Messaging apps have overtaken social networks

Gartner has shown that people have <u>stopped downloading apps</u> and instead, <u>messaging is picking up dramatically</u>.



More customer interaction without humans

According to Gartner, by 2020 <u>85%</u> of customer interactions will be managed without a human.



Enterprises are building custom solutions

After prototyping, enterprises have started to invest significantly in their own, customized solutions in conversational AI, like chatbots.



The Rasa Stack is open source, trusted by thousands of developers and lays the foundation for building more complex, multi-turn dialogues



Rasa NLU

Natural Language Understanding with intent and entity classification



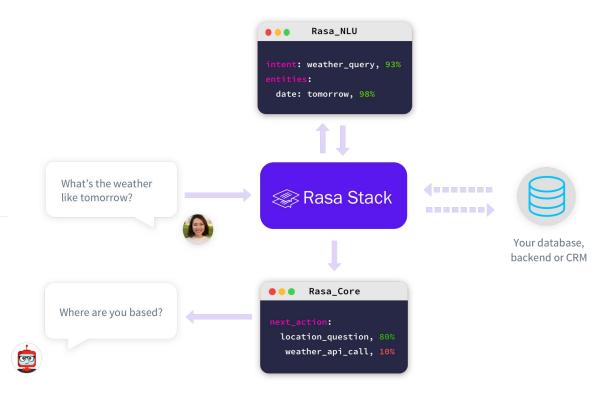
Rasa Core

Machine Learning-based dialogue Management that allows for more complex, multi-turn conversations



Community Support

Get support from developers using and building with the Rasa Stack on Gitter and Github





Use Cases

Healthcare

- Remind patients to take medicine & answer questions http://hiariana.com/
- Help a charity drive patients to HIV clinics in South Africa: http://numberboost.com

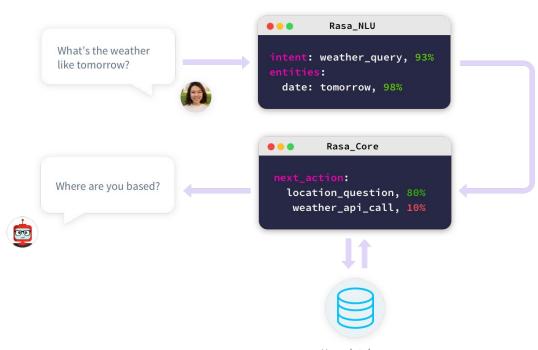
Education

- Helping non-technical people explore large amounts of data without SQL
- A support bot for e-learning platforms



Elements of Conversational AI







Your database, backend or CRM

NLU is easy



NLU Basics

I'm looking for a Mexican restaurant in the center of town





intent: restaurant_search,
entities :

cuisine: Mexican,

area: center



NLU is hard



Negation

"No I don't want sushi"

"I'd go hungry before eating sushi"



NLU is impossible



Do These Sentences Mean the Same Thing?

Can you help me log in to my account?

Can I give someone else access to log in to my account?

The company fired the manager who was hired in 2002

The Company fired the manager who was embezzling money *

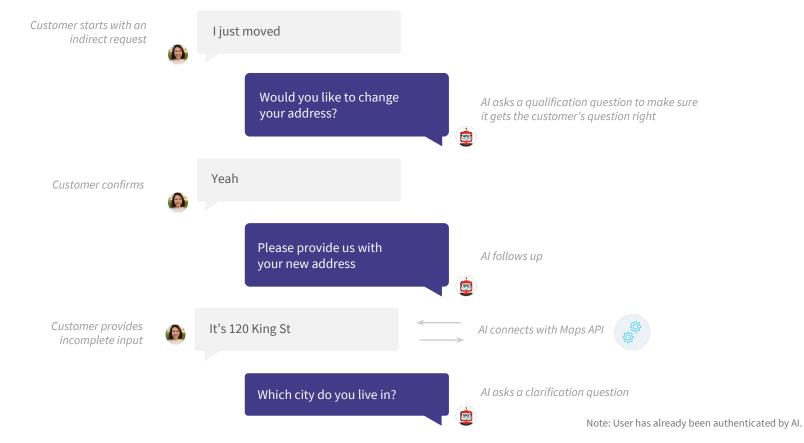


Dialogue



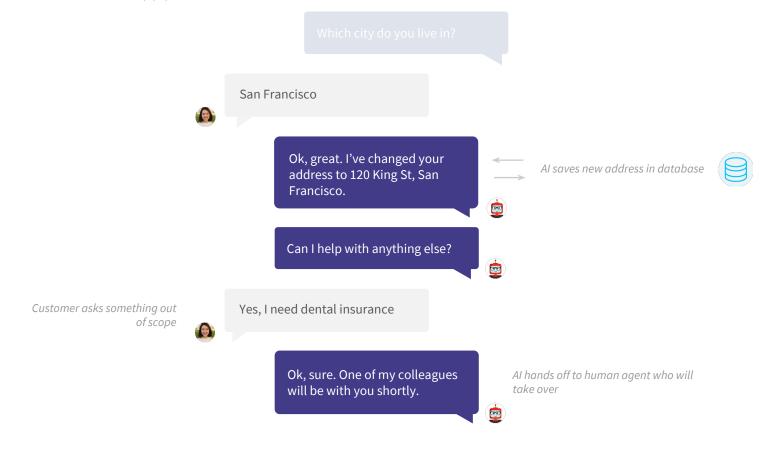
Example from an insurance company: Handling complex, multi-turn dialogues

with Rasa





DIALOGUE MANAGEMENT EXPLAINED (2/2)







VENDOR LANDSCAPE

Most vendors of conversational software technology don't fit into the a highly customized IT landscape of a large enterprise

Level of bot success

Drag & Drop

- Use for: Quick prototyping and user testing
- Customization: Low
- Example customers: Innovation
 Labs

Off-the-shelf

- Use for: Limited deployments in one specific business function like customer service or sales
- Customization: Medium
- Example customers: SMBs

Custom

- Use for: Large scale deployment across multiple business functions
- Customization: High
- Example customers: Enterprises







Kasisto parlamind



Digital **Genius**





















What should I use?

PHASE I PHASE II PHASE III Point & Click Dialogue, javascript: Pure NLU: Chatfuel Wit.ai (web) Botkit (open source) LUIS.ai (web) Dialogue, advanced: Rasa (open source) Rasa (open source) NLU + basic dialogue:

Api.ai (web)



Platforms



Messenger

- > 1 Bn users
- Full support for bots
- You can't have a bot without a facebook page, but one bot can 'listen' to multiple pages

https://developers.facebook.com/docs/messenger-platform/





Slack

- Easy to build for
- Easy to test yourself
- Hard to give to your friends to test





Thanks!



Alan Nichol

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