

# ACHELOIS

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# **INTRODUCTION**

- Human-Computer Interaction (HCI) researches the design and use of computer technology, focused on the interfaces between people (users) and computers
- A dialog system or conversational agent (CA) is a computer system intended to converse with a human, with a coherent structure
- Chatbots are typically used in dialog systems for various practical purposes and use sophisticated NLP systems

#### **Dialogflow Platforms** luis.ai wit.ai Developed by wit.ai Formerly known as • Introduced by Microsoft • and now, acquired by api.ai and now, it is a **Description** Facebook. Google acquired platform. One-click integration More feasible for • Allows control of with several platforms conversation flow professional purposes and .NET developers. using branches and like Slack, Twitter, conditions on actions. Enhanced functionalities Google Assistant etc. Pros Built-in voice interface • Request processing for using Microsoft Azure. and support for Node.js, training using "Inbox". Ruby SDKs. • wit.ai has integration luis.ai allows only Priced for enterprises with Facebook 10,000 transactions for requiring high each month and is utilization of messenger only. • Difficult to control the Dialogflow priced after that. Cons It is impossible to block flow of the the matching of an conversation intent if a context is present.

### **HOW ACHELOIS WAS BORN?**

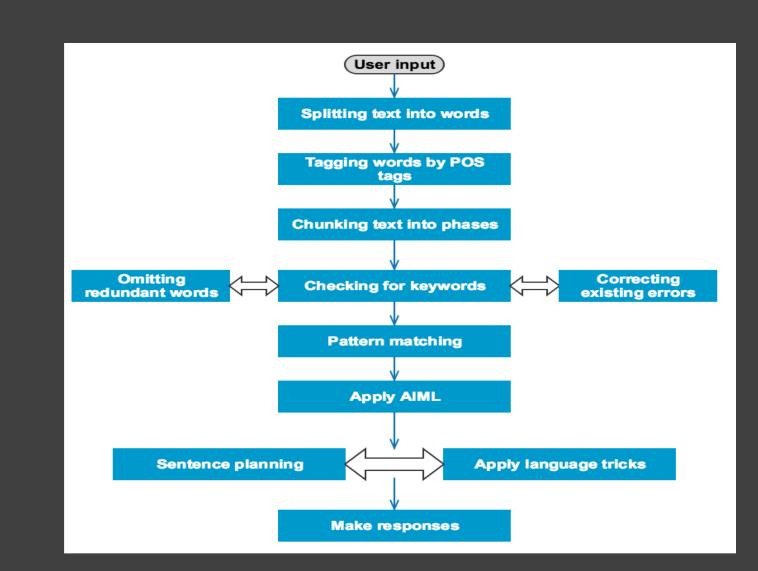
Achelois was developed using

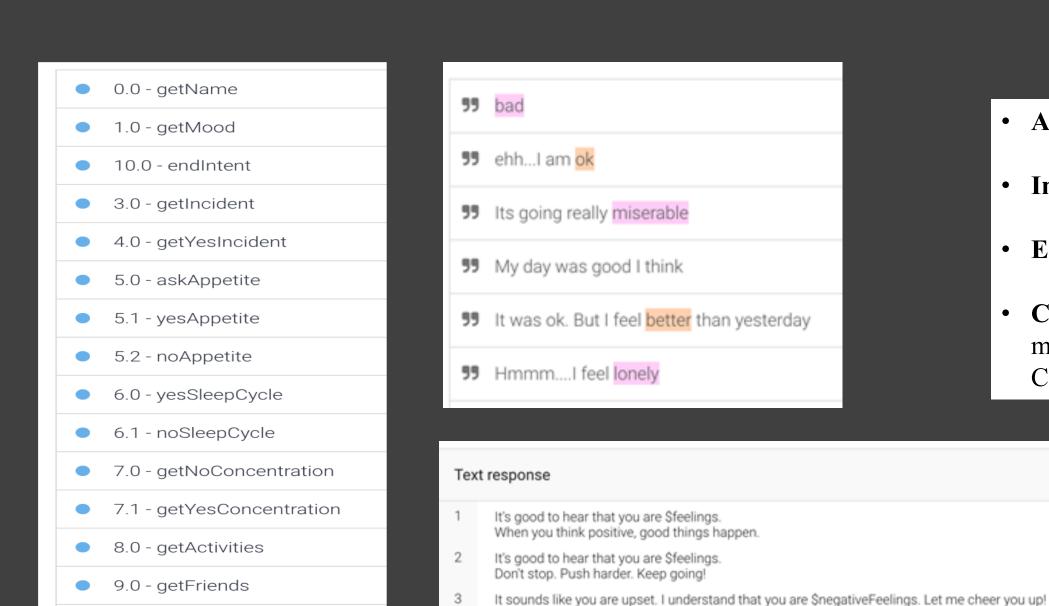


#### WHY HEALTHCARE?

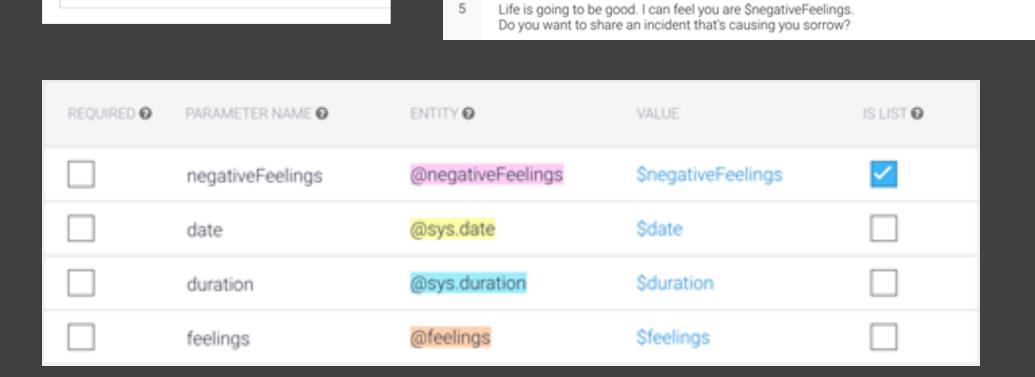
Technical advancements in the healthcare domain are growing at a rapid pace. Numerous chatbots are already available in the areas of hotel management, travel, food delivery and home automation.

Development of chatbots that are customized to individual needs will make healthcare widely available. Some chatbots already being used for general healthcare services like Your.MD, Florence and GYANT



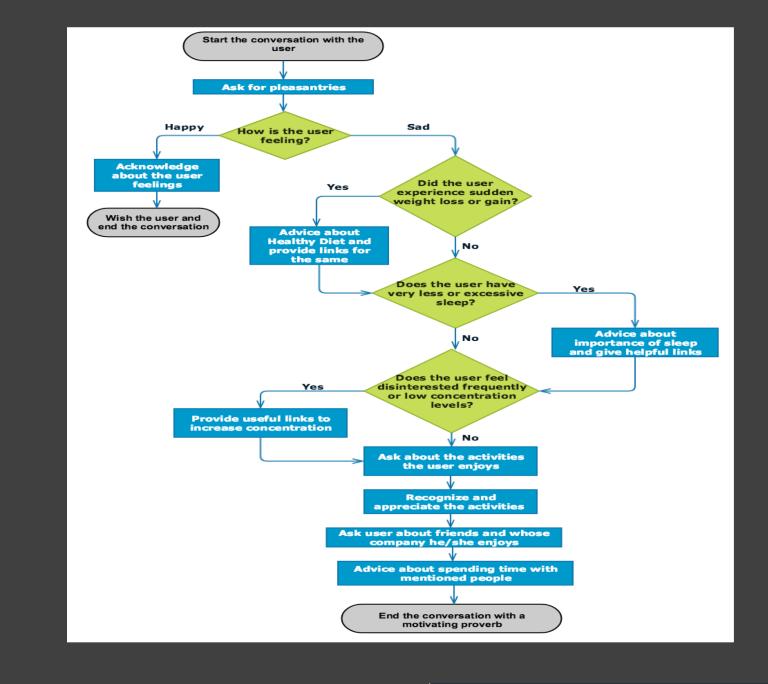


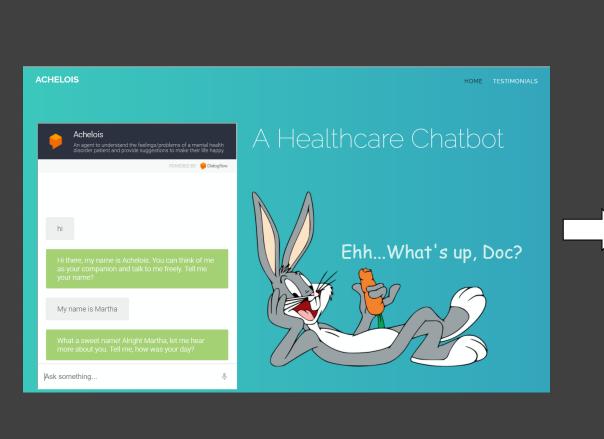
- Agents: can be designed to manage a conversation flow in a specific way
- Intent: represents a mapping between what a user says and what action should be taken
- Entity: a powerful tool used for extracting parameter values from natural language inputs
- Context: is helpful in differentiating phrases which may be vague or have different meanings depending on the user's preferences, location or the topic of conversation. Contexts represent the current context of a user's request



Is there an incident that's concerning you?

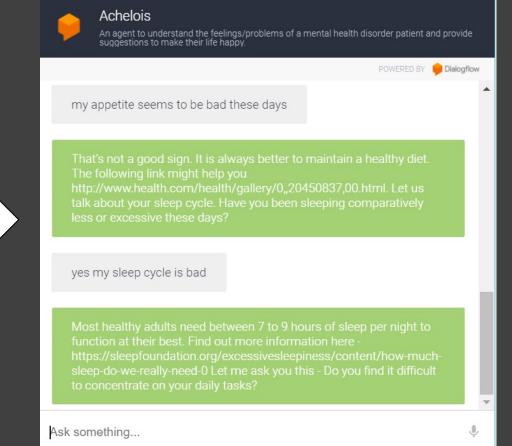
Is there an incident that's bothering or troubling you.



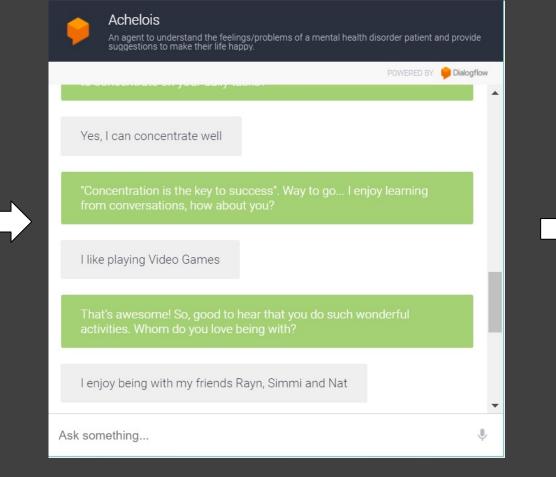


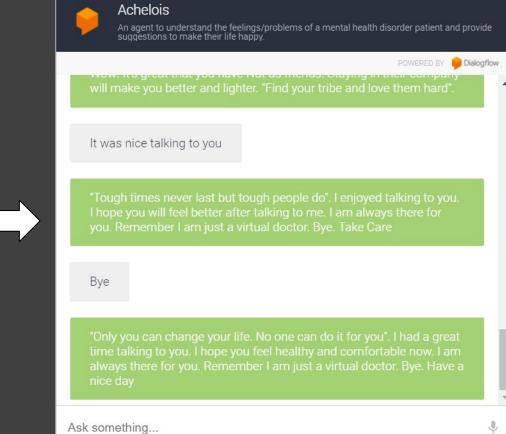
Default Fallback Intent

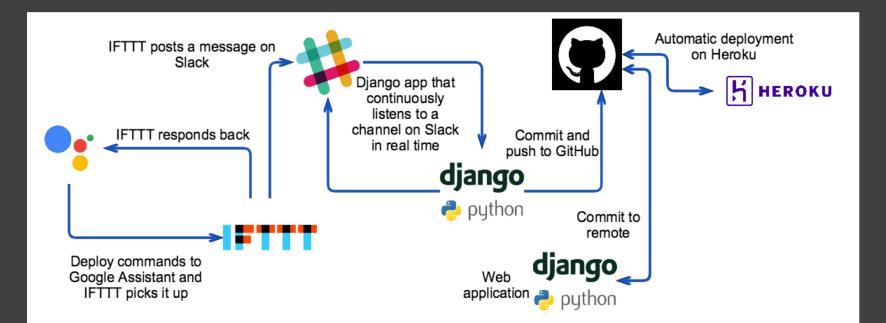
Default Welcome Intent



It sounds like you are upset. I understand that you are \$negativeFeelings. Let me cheer you up!







## FUTURE OF CHATBOTS IN HEALTHCARE

- The most challenging aspect of advancement in the development of chatbots is that, tools in healthcare must meet our basic technology expectations, informing and connecting, but they must also comfort us in our time of need. They must make things bearable, hopeful
- Another challenge with respect to healthcare domain in general is that the data is sparse. Even if large datasets are available, it is difficult to feed them to the bot as the responses from patients are unpredictable