Introduction to chatbots

A chatter robot (chatbot) is a type of conversational agent, a computer program designed to simulate an intelligent conversation with one or more human users in natural language via auditory or textual methods.

In short, chatbots are virtual assistant programmed to automatically answer users requests

applications ¶

- · Customer support User account information, Order tracking and delivery, Product technical support, Incident report
- · Sale and advice Make an order, reservation, Ask for personalized advices
- Internal support Helpdesk (office applications, etc), HR (leave balances, etc), Practical services (room booking...)
- · Gaming platforms interactive, even multiuser text-image based games

advangages

- · Immediate answers
- Available 24/7
- 90% routine answers
- · Personalized answers
- · Customer autonomy
- · Innovative customer service

telegram bot creation

- · search for botfather
- start conversation
- · type /newbot command for creating new bot provide name (how everybody will call your bot) and identificator, that must end with 'bot'
- · use generated token to authorize your bot

In []: # lets import library and initiate our new bot

In computer systems, an access token contains the security credentials for a login session and identifies the user, the user's groups, the user's privileges, and, in some cases, a particular application

```
In [ ]: # for security reasons my token is hidden :)
        from my token import MY TOKEN
```

installing module to work with telegram module

\$ pip install pytelegrambotapi

pip is a recursive acronym for "Pip Installs Packages". pip is a standard package-management system used to install and manage software packages written in Python.

```
import telebot
        bot = telebot.TeleBot(MY TOKEN)
In [ ]: # our bot can do nothing vet.
        # lets program it to responce on /start command
        @bot.message handler(commands=['start'])
        def start_message(message):
            bot.send message (message.chat.id, "let's start")
        # here @bot is a decorator
        ### Decorators provide a simple syntax for calling higher-order functions.
        ### By definition, a decorator is a function that takes another function
        ### and extends the behavior of the latter function without explicitly modifying it.
        # message_handler catches messages
        # commands=['start'] determines what type and keyword should it catch
        ### i.e. @bot.message handler(commands=['start']) is a decorator that catches 'start' command
        # def start message(message): is a name and argument of response function
        # bot.send_message(message.chat.id, "let's start") is a response command
        ###. i.e. bot sends message "let's start" to the chat that was asked to /start
```

```
In [ ]: # yet this is not enough
        # our new not is not listening to us
        # let's turn it on
        bot.polling()
        # now bot can respond on /start command
```

```
In [ ]: # now let's extend functionality of our bot
        # let's teach itreply on 'hi', 'bye' messages
        @bot.message_handler(content_types=['text'])
        def send_text(message):
           if message.text.lower() == 'hi':
               bot.send message(message.chat.id, 'Good day')
            elif message.text == 'bye':
               bot.send_message(message.chat.id, 'cya')
               bot.send message(message.chat.id, 'try again')
        # make sure that us stopped bot.polling()
        # and start it after this function
In [ ]: # you will get something like this
        import telebot
        bot = telebot.TeleBot(MY TOKEN)
        @bot.message_handler(commands=['start'])
        def start_message(message):
            bot.send_message(message.chat.id, "let's start")
        @bot.message_handler(content_types=['text'])
        def send text(message):
           if message.text.lower() == 'hi':
                bot.send message(message.chat.id, 'Good day')
            elif message.text == 'bye':
               bot.send_message(message.chat.id, 'cya')
               bot.send message(message.chat.id, 'try again')
        bot.polling()
```