



Chatbot

Computer scienc (Government College University Faisalabad)



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Chatbot

Keywords

Chatbot
Pattern matching
Machine learning
Natural dialog interfaces
Natural language processing
Human–computer interaction
T test

Artificial Intelligence Markup Language (AIML)

PandoraBots is a great site to learn because it has pre-existing codes. Richard Wallac owns it. You can design and develop and test your chatbot on this platform. It is free without the hassle of paying per message.

GitHub is another excellent resource for learning AIML. The developer community keeps here the source code of the chatbot. You can quickly learn it. I learned from the free course option of Udemy and Tutorialspoint.

AIML is an XML dialect computing language. It has a collection of rules for chatbot conversation. The intelligence capabilities depend on the number of rules in the code.

Chatbot approaches

There are two approaches in developing a chatbot depending on the algorithms and the techniques adopted:

pattern matching :

knowledge based chatbots, Rule-based chatbots match the user input to a rule pattern and select a predefined answer from a set of responses with the use of Pattern Matching algorithms.

AIML, Rivescript, and Chatscript.

machine learning :

using Natural Language Processing (NLP)

Artificial Neural Networks (ANNs) are used for the implementation of these chatbots.

Retrieval-based models use a neural network to assign scores and select the most likely response from a set of responses.

Generative models synthesize the reply, usually using deep learning techniques.

Natural Language Understanding (NLU)

Artificial Neural Networks

Recurrent Neural Networks

Sequence-to-Sequence model

Deep Seq2seq Models

5. General architecture

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