TASK 1

CHATBOT WITH RULE-BASED RESPONSES

Build a simple chatbot that responds to user inputs based on predefined rules. Use if-else statements or pattern matching techniques to identify user queries and provide appropriate responses. This will give you a basic understanding of natural language processing and conversation flow

DETAILS

  Building a Rule-Based Chatbot with Python and NLP

OVERVIEW: This article provides a step-by-step guide to building a rule-based chatbot using Python, regular expressions, and Natural Language Processing (NLP) techniques.

PREREQUISTES:

• Python programming skills

• Regular expressions (regex) knowledge

• Natural Language Processing (NLP) concepts understanding

METHODS:

• Rule-Based Logic

• Tokenization

• Stemming

• Part-of-Speech Tagging

• Pattern Matching

IMPLEMENTATION:

* Set up environment
* Import modules
* Download NLTK datasets
* Define patterns and responses
* Define chatbot class
* Initialize chatbot
* Create interaction function
* Start chat interaction