

Assignment AIR-2

Title: Chatbot

Problem Statement

Develop an elementary chatbot for suggesting investments as per customer

Objective

To implement a chatbot

Outcome

To be able to learn about chatbot and implement a chatbot

Software and hardware requirements

64-bit OS - Ubuntu / Windows 10, Python NLTK

Theory related concepts

- A chatbot is a software application used to conduct an online chat conversation via text or text-to-speech similar to providing direct contact with a live human agent.
- It is designed to convincingly simulate the way a human behaves as a conversational partner. Chatbot systems typically require continuous tuning and testing and many in production remain unstable to adequately converse as per the industry standard.
- Chatbots are used in dialogue systems for various purposes including customer service, request routing or for information gathering.
- They can be classified into usage categories that include commerce,

education, entertainment, finance, health etc.

NLTK

Neural language tool kit is a leading platform for building python programs to work with human language data. It provides easy to use interfaces along with a suite of text processing library for classification tokenization, stemming, tagging, parsing and semantic reasoning wrapping for industrial-strength nlp libraries and an active discussion forum.

Test Cases

Answer

- | | | |
|----|-----------------------|---|
| 1. | Who is Warren Buffet? | Warren Buffet is a notable example of value investors |
| 2. | What is return? | The benefit from an investment is called return |

Conclusion

Hence, we successfully implemented and understood the working of a chatbot.