

# Valearnis Chat Bot Documentation

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The Valearnis Chat Bot is an AI-powered chat bot designed to provide friendly assistance to Valearnis customers or other interested users. Its primary purpose is to provide users with information and promote the Valearnis service.

The chat bot utilises Natural Language Processing (NLP) techniques to pre-process user input. This includes removing punctuation, tokenisation, and lemmatisation. The pre-processed prompt is then sent to the OPENAI API, which uses a curie-based model fine-tuned specifically for Valearnis.

The chat bot provides five different responses, each with a maximum of 50 tokens. These response lengths can be adjusted according to user preferences.

To determine the relevance of each response, the program counts the words in the prompt and calculates the word count and similar word percentage of each response with the prompt. These three variables are used in a decision tree regressor model to predict the relevance of each response. The response with the highest relevance score is then selected and outputted to the user.

Overall, the Valearnis Chat Bot provides an efficient and friendly way for customers to access information about the Valearnis service. Its use of NLP techniques and Machine Learning decision-making makes it an effective tool for addressing customer inquiries.