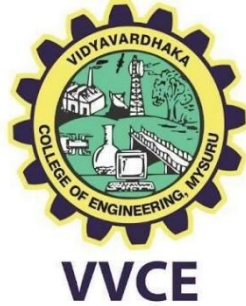


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A Project Report on

“Creating ChatBot ”

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INTRODUCTION

In the dynamic landscape of technology, the demand for efficient and user-friendly interfaces has led to the rise of chatbots. These conversational agents have become integral in providing seamless interactions between users and applications. This report delves into the process of creating a sophisticated chatbot using Python, exploring key concepts, methodologies, and tools involved in the development.

As businesses strive to enhance customer experiences and automate routine tasks, chatbots have emerged as powerful tools. Python, a versatile and widely-used programming language, offers a conducive environment for developing intelligent chatbots. This report aims to guide developers through the essential steps in crafting a functional and intelligent chatbot.

Explore Python libraries and frameworks suitable for building conversational interfaces. Implement a step-by-step approach for designing and coding a chatbot using best practices. Enhance the chatbot's capabilities through machine learning techniques. Address challenges and considerations in deploying and maintaining a chatbot.

SUMMARY

We are creating three files namely, `main.py`
`bot.json` and
`random_responses`

The file `main.py` consists the actual code written by the user , `bot.json` consists of data fed by the user and also the responses to be given by the bot later , the `random_responses` consists of default statements given by the bot when user gives invalid input.

The code begins by importing the `json` module, which is used for working with JSON data. It also imports the `re` module for regular expressions and assumes that there is a module named `random_responses` available which was created by the user.

The function `load_json` takes a file path as an argument, opens the file, and loads its content using `json.load()`. It prints a success message indicating that the file has been loaded and returns the loaded JSON data. If user gives invalid inputs then the default statements from the `random_responses` will be printed.

Why ChatBot? Due to the increasing relevance of conversational interfaces in various fields Chatbots serve various purposes, enhancing user experiences in different domains. They provide quick and automated responses, handle routine queries, and streamline customer support. Businesses use chatbots to improve efficiency, engage with customers 24/7, and gather valuable data for better decision-making. Additionally, chatbots can assist in language learning, offer personalized recommendations, and simplify various tasks, contributing to a more interactive and accessible digital environment.

CONCLUSION : The report covers a broad spectrum, from foundational concepts machine learning for practical implementation using Python. It includes hands-on examples, code snippets, and guidance to empower both beginners and experienced developers in creating robust chatbots.

OUTPUT :

```
Loaded 'bot.json' successfully!
You: hello
Bot: Hey there!
You: nice to meet you
Bot: The pleasure is all mine!
You: how to learn coding
Bot: I'm terribly sorry, I didn't quite catch that.
You: how to learn code
Bot: Start by typing: 'How to learn coding' on Google.
You: how can i get refund
Bot: We don't offer refunds for free education.
You: goodbye
Bot: See you later!
You: 
```

