

## PHASE 1: CREATE A CHATBOT IN PYTHON

Creating a fully functional chatbot in Python is a complex task that involves multiple libraries and components. Here's a simplified example using Python and the ChatterBot library to create a basic rule-based chatbot. This chatbot won't use advanced NLP techniques or machine learning but will respond based on predefined rules:

1. First, you need to install the ChatterBot library if you haven't already. You can install it using pip:

```
```bash
pip install chatterbot
pip install chatterbot_corpus
```
```

2. Now, you can create a Python script for your chatbot:

```
```python
from chatterbot import ChatBot
from chatterbot.trainers import ChatterBotCorpusTrainer

# Create a chatbot instance
chatbot = ChatBot('MyBot')

# Create a new trainer for the chatbot
trainer = ChatterBotCorpusTrainer(chatbot)

# Train the chatbot on English language data
trainer.train('chatterbot.corpus.english')

# Define a function to get a response from the chatbot
def get_response(user_input):
```

```
response = chatbot.get_response(user_input)

return str(response)
```

```
# Main loop for user interaction
```

```
if __name__ == "__main__":
```

```
    print("Hello! I'm your chatbot. Type 'exit' to end the conversation.")
```

```
    while True:
```

```
        user_input = input("You: ")
```

```
        if user_input.lower() == 'exit':
```

```
            print("Chatbot: Goodbye!")
```

```
            break
```

```
        response = get_response(user_input)
```

```
        print("Chatbot:", response)
```

```
'''
```