



**Yogananda School of AI Computers and Data Science**

## **Artificial Intelligence (CSU2219)**

**PROJECT: Using symbolic Ai create an application for Medical Expert.**

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**Submitted to : DS Shiva Sir**

```
EXPLORER    ...    chatbot.py
AI
  medical_chatbot
    chatbot.py
  ~$dical Expert
  Medical Expert

medical_chatbot > chatbot.py
1  # medical_chatbot.py
2
3  def medical_chatbot():
4      print("👋 Hello! I am your AI Medical Expert System.")
5      print("⚠️ Disclaimer: I am not a doctor. I can only provide basic advice.")
6      print("Type 'exit' anytime to quit.\n")
7
8      # Symptom-to-disease mapping
9      medical_conditions = {
10         "cold": {
11             "symptoms": ["cough", "sneezing", "runny nose", "sore throat"],
12             "advice": "Rest well, drink warm fluids, and take steam inhalation. Visit a doctor if it lasts more than 7 da
13         },
14         "flu": {
15             "symptoms": ["fever", "body pain", "headache", "chills", "fatigue"],
16             "advice": "Stay hydrated, take paracetamol for fever, and get enough rest. See a doctor if fever is very high
17         },
18         "migraine": {
19             "symptoms": ["headache", "nausea", "sensitivity to light", "sensitivity to sound"],
20             "advice": "Rest in a quiet dark room, avoid screen time, and take prescribed migraine medication if available
21         },
22         "covid-19": {
23             "symptoms": ["fever", "cough", "shortness of breath", "loss of taste", "loss of smell", "fatigue"],
24             "advice": "Isolate yourself, wear a mask, monitor oxygen levels, and consult a doctor immediately."
25         },
26         "allergy": {
27             "symptoms": ["sneezing", "itchy eyes", "runny nose", "rash"],
28             "advice": "Avoid allergens, take an antihistamine, and consult a doctor if symptoms persist."
29         }
}
```

```
EXPLORER  ...  chatbotpy
└─ AI
  └─ medical_chatbot
    └─ chatbotpy
      └─ ~$dical Expert
        └─ Medical Expert

3  def medical_chatbot():
30      }
31
32      while True:
33          # User input
34          user_input = input("👉 You: ").lower()
35
36          if user_input == "exit":
37              print("👤 Chatbot: Take care! Wishing you good health. Goodbye! 🙋")
38              break
39
40          # Find matching conditions
41          possible_conditions = []
42          for condition, details in medical_conditions.items():
43              for symptom in details["symptoms"]:
44                  if symptom in user_input:
45                      possible_conditions.append(condition)
46                      break # Prevent duplicate matches
47
48          # Give response
49          if possible_conditions:
50              print("👤 Chatbot: Based on your symptoms, you might have:")
51              for condition in possible_conditions:
52                  print(f"    • {condition.capitalize()}")
53                  print(f"    📌 Advice: {medical_conditions[condition]['advice']}")
54          else:
55              print("👤 Chatbot: Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.")
56
57
58 # Run chatbot
59 if __name__ == "__main__":
60     medical_chatbot()
61
```

```
50      print("👤 Chatbot: Based on your symptoms, you might have:")
51      for condition in possible_conditions:
52          print(f"    • {condition.capitalize()}")
53          print(f"    📌 Advice: {medical_conditions[condition]['advice']}")
54      else:
55          print("👤 Chatbot: Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.")
56
57
58 # Run chatbot
59 if __name__ == "__main__":
60     medical_chatbot()
61
```

```
medical_chatbot > chatbot.py
C:\Users\kalsi\AppData\Local\Programs\Python\Launcher\py.exe
~$ Symptom 'cough' detected. Possible condition: **Common Cold**.
Me Advice: Rest well and avoid cold drinks.

You (type symptoms or 'exit' to quit): ruuning nose
Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.

You (type symptoms or 'exit' to quit): running nose
Symptom 'running nose' detected. Possible condition: **Common Cold**.
Advice: Drink warm fluids and take steam inhalation.

You (type symptoms or 'exit' to quit): dry cough
Symptom 'cough' detected. Possible condition: **Common Cold**.
Advice: Drink warm fluids and take steam inhalation.

You (type symptoms or 'exit' to quit): headache
Symptom 'headache' detected. Possible condition: **Flu**.
Advice: Consult a doctor if fever lasts more than 3 days.

You (type symptoms or 'exit' to quit): stomache
Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.

You (type symptoms or 'exit' to quit): stomachache
Sorry, I couldn't identify a condition with those symptoms. Please consult a doctor.

You (type symptoms or 'exit' to quit): vomiting
```