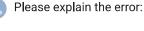
1.Upload Dataset

File "<ipython-input-2-9a7000ef27t •••

```
# Step 1: Import required libraries
from google.colab import files
import pandas as pd
# Step 2: Upload the file
uploaded = files.upload()
# Step 3: Load the file into a pandas DataFrame (assuming it's a C
import io
df = pd.read csv(io.BytesIO(uploaded[next(iter(uploaded))]))
# Step 4: Display the first few rows
df.head()
     Choose files No file chosen
                                        Upload widget is only available
     when the cell has been executed in the current browser session. Please
     rerun this cell to enable.
     Saving student-dataset.csv to student-dataset.csv
         school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob
      0
      1
      2
      3
2.Load the Dataset
# Step 1: Import necessary library
import pandas as pd
# Step 2: Load the dataset from a local path
# Replace 'your dataset.csv' with your actual filename or path
# Assuming the dataset was uploaded in the previous cell, use the
df = pd.read csv(io.BytesIO(uploaded[next(iter(uploaded))]))
# Step 3: Display basic information about the dataset
print(" ☑ Dataset Loaded Successfully!")
print(f"Shape of the dataset: {df.shape}")
print("Column names:", df.columns.tolist())
print("\n \sqrt{n \quad \text{Preview of the dataset:")}
print(df.head())
     ☑ Dataset Loaded Successfully!
     Shape of the dataset: (395, 1)
     Column names: ['school;sex;age;address;famsize;Pstatus;Medu;Fe
     Preview of the dataset:
```



File "<ipython-input-2-9a7000ef27 import random

IndentationError: expected an inder



Hypothesis

The error is an IndentationError and it happens because the import random statement on line 18 is not indented correctly. In Python, indentation is crucial for defining code blocks, especially within conditional statements like if, elif, and else. The elif statement on line 17 expects an indented block of code to execute if the condition is True. However, the next line (import random) is not indented, which violates Python's syntax rules and leads to the IndentationError.

Suggested Changes



import random

```
# Simulated trained intents and res
intents = {
    "greeting": ["Hello! How can I
    "hours": ["Our business hours a
    "reset_password": ["You can res
    "shipping": ["Yes, we do offer
    "fallback": ["I'm sorry, I didr
}
```

```
# Basic keyword-based intent predic
def predict_intent(user_input):
    user_input = user_input.lower()
    if "hello" in user_input or "hi
        return "greeting"
    elif "hours" in user_input or '
        return "hours" # This line
    elif "password" in user_input c
        return "reset_password"
    elif "shipping" in user_input c
```

school;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob;r

0 GP;"F";18;"U";"GT3";"A";4;4;"at_home";"teacher...

1 GP;"F";17;"U";"GT3";"T";1;1;"at_home";"other";...

```
2 GP;"F";15;"U";"LE3";"T";1;1;"at_home";"other";...
     3 GP;"F";15;"U";"GT3";"T";4;2;"health";"services...
     4 GP; "F"; 16; "U"; "GT3"; "T"; 3; 3; "other"; "other"; "h...
3.Data Exploration
# Step 1: Import required libraries
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import io # Import io module
# Step 2: Load the dataset
# Assuming the dataset was uploaded in the previous cells, use the
df = pd.read_csv(io.BytesIO(uploaded[next(iter(uploaded))])) # Us
# Step 3: Preview the data
print(" Q Dataset Preview:")
print(df.head())
→ ataset Preview:
    nool;sex;age;address;famsize;Pstatus;Medu;Fedu;Mjob;Fjob;reason
    ';"F";18;"U";"GT3";"A";4;4;"at_home";"teacher...
    ';"F";17;"U";"GT3";"T";1;1;"at_home";"other";...
    ';"F";15;"U";"LE3";"T";1;1;"at_home";"other";...
    ';"F";15;"U";"GT3";"T";4;2;"health";"services...
    ';"F";16;"U";"GT3";"T";3;3;"other";"other";"h...
4. Check for Missing Values and Duplicates
# Step 1: Import the required library
import pandas as pd
import io
# Step 2: Load your dataset - Using the uploaded file instead of '
5. Visualize a Few Features
# Step 1: Import required libraries
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import io
# Step 2: Load the dataset
# Instead of reading from 'your_dataset.csv', use the uploaded dat
# df = pd.read csv('your dataset.csv') #
6.Identify Target and Features
```

```
return "shipping"
    else:
        return "fallback"
# Get user input
user input = input("You: ")
# Predict intent
predicted intent = predict intent(\(\epsilon\)
# Get a random response from the co
if predicted intent in intents:
    bot response = random.choice(ir
    print("Bot:", bot_response)
else:
    print("Bot:", "I'm sorry, I dic
```

Use code with caution

Rate this answer 1 4

```
# ... previous code ...
# Step 5: Identify Feature Columns
# Assuming 'user query' or 'text' is the main input feature
# Check if either 'user query' or 'text' or the first column name
# If none of these exist, consider using another relevant column a
# Instead of using index 1 directly, check if it exists first
feature_columns = ['user_query'] if 'user_query' in df.columns els
print(f" * Feature Column(s): {feature_columns}")
# Step 6: Extract Features (X) and Target (y)
# Check if feature_columns is not empty before accessing it
X = df[feature_columns[0]] if feature_columns else pd.Series([])
y = df[target_column]
                            # labels
# ... rest of the code ...
     Feature Column(s): ['school;sex;age;address;famsize;Pstatu
7. Convert Categorical Columns to Numerical
# Step 1: Import required libraries
import pandas as pd
from sklearn.preprocessing import LabelEncoder
# Step 2: Instead of loading from file, use the existing DataFrame
# df = pd.read csv('your dataset.csv') # Remove this line
8. Encode Multiple Categorical Columns
# Suppose you also have other categorical features (like 'user_tyr
categorical cols = ['intent', 'user type'] # Update with your col
# Apply Label Encoding to each
label encoders = {}
for col in categorical cols:
    # Check if the column exists in the DataFrame before encoding
    if col in df.columns:
        le = LabelEncoder()
        df[col + '_encoded'] = le.fit_transform(df[col])
        label encoders[col] = le
    else:
        print(f" ▲ Column '{col}' not found in DataFrame. Skippin
    ⚠ Column 'intent' not found in DataFrame. Skipping encoding.
     🛕 Column 'user_type' not found in DataFrame. Skipping encodi
9. One-Hot Encoding
# Step 1: Import required libraries
import pandas as pd
# Step 2: Instead of loading from file, use the existing DataFrame
```

```
# df = pd.read_csv('your_dataset.csv') # Replace with your datase
# Use the existing DataFrame 'df'
# Step 3: Check if 'intent' column exists, and if not, create it
# --- Added this code block ---
if 'intent' not in df.columns:
   # If 'intent' doesn't exist, assume the first column contains
   # (You might need to adjust based on your data structure)
   if len(df.columns) > 0:
        df.rename(columns={df.columns[0]: 'intent'}, inplace=True)
   else:
        raise KeyError("The DataFrame is empty or doesn't have any
# --- End of added code block ---
# Step 3: Apply One-Hot Encoding to the 'intent' column
df_encoded = pd.get_dummies(df, columns=['intent'])
# Step 4: Preview the result
print(" One-Hot Encoded DataFrame:")
print(df_encoded.head())
₹
```

```
10/05/2025, 13:04
```

```
0
                                                     False
     1
                                                     False
     2
                                                     False
     3
                                                     False
     4
                                                     False
        intent_MS;"M";21;"R";"GT3";"T";1;1;"other";"cour
     0
                                                     False
     1
                                                     False
     2
                                                     False
                                                     False
     3
     4
                                                     False
     [5 rows x 395 columns]
  10. Feature Scaling
# Step 1: Import required libraries
import pandas as pd
from sklearn.preprocessing import StandardScaler
# Step 2: Use the existing DataFrame (df) instead of loading from
# df = pd.read csv('your dataset.csv') # This line is removed
# The DataFrame 'df' from previous cells is used
# Step 3: Select numerical features for scaling
# Exclude text fields like 'user_query' or categorical columns unl
# Assuming 'intent encoded' is a numerical column if 'intent' was
numerical cols = df.select dtypes(include=['number']).columns.toli
# Remove 'intent' if it's not encoded or is the original categoric
if 'intent' in numerical cols and 'intent encoded' not in numerica
    numerical_cols.remove('intent')
# Optional: Manually specify numerical columns if needed
# numerical_cols = ['feature1', 'feature2', 'intent_encoded']
# Step 4: Initialize the scaler
scaler = StandardScaler()
# Step 5: Fit and transform the numerical columns
df_scaled = df.copy()
if numerical cols: # Check if there are any numerical columns to
    df_scaled[numerical_cols] = scaler.fit_transform(df[numerical
else:
    print(" \( \bar{\Lambda} \) No numerical columns found for scaling.")
# Step 6: Preview the scaled dataset
print(" ✓ Scaled Feature Preview:")
if numerical_cols:
    print(df scaled[numerical cols].head())
else:
    print("No scaling performed.")
     ⚠ No numerical columns found for scaling.
     Scaled Feature Preview:
     No scaling performed.
```

SHIVILES , SHIVILES , SHIVILES

11.Train-Test Split

```
# Step 1: Import necessary libraries
import pandas as pd
from sklearn.model selection import train test split
# Step 2: Use the existing DataFrame (df) instead of loading from
# df = pd.read_csv('your_dataset.csv') # Remove this line, use ex
# Step 3: Define features (X) and target (y)
# Assuming 'user_query' is the feature and 'intent' is the target
# Adjust column names if needed based on your DataFrame
X = df['intent'] # Replace 'user query' or 'text' with your featu
y = df['intent'] # Replace 'intent' or 'intent_encoded' with your
# Step 4: Perform train-test split
# Check if stratification is possible
if len(y.unique()) > 1 and y.value_counts().min() >= 2:
    X_train, X_test, y_train, y_test = train_test_split(
       Х, у,
                            # 20% for testing
        test size=0.2,
        random_state=42,
                           # for reproducibility
        stratify=y
                            # preserve label distribution
    )
# Step 1: Import necessary libraries
import pandas as pd
from sklearn.model_selection import train_test_split
# Step 2: Use the existing DataFrame (df) instead of loading from
# df = pd.read_csv('your_dataset.csv') # Remove this line, use ex
# Step 3: Define features (X) and target (y)
# Assuming 'user_query' is the feature and 'intent' is the target
# Adjust column names if needed based on your DataFrame
X = df['intent'] # Replace 'user_query' or 'text' with your featu
y = df['intent'] # Replace 'intent' or 'intent_encoded' with your
# Step 4: Perform train-test split
# Check if stratification is possible
if len(y.unique()) > 1 and y.value_counts().min() >= 2:
    X_train, X_test, y_train, y_test = train_test_split(
       Х, у,
                           # 20% for testing
        test size=0.2,
                           # for reproducibility
        random_state=42,
        stratify=y
                            # preserve label distribution
    )
else:
    # If stratification is not possible, remove 'stratify' argumer
    print("▲ Stratification is not possible. Performing a regula
    X_train, X_test, y_train, y_test = train_test_split(
       Х, у,
        test size=0.2,
                           # 20% for testing
        random state=42
                           # for reproducibility
    )
🗦 🗼 Stratification is not possible. Performing a regular split
```

12. Model Building

```
# Step 1: Import necessary libraries
import pandas as pd
from sklearn.feature extraction.text import TfidfVectorizer
from sklearn.ensemble import RandomForestClassifier
from sklearn.pipeline import make pipeline
from sklearn.model_selection import train_test_split
from sklearn.metrics import classification report, accuracy score
import io
# Step 2: Load the dataset - Use the in-memory dataframe `df` inst
# df = pd.read csv('your dataset.csv') # Replace with your actual
  13. Evaluation Code
from sklearn.metrics import accuracy_score, precision_score, recal
from difflib import SequenceMatcher
# Simulated chatbot response function (to be replaced with your ac
def chatbot response(input text):
    # Example dummy response (replace with your chatbot)
    responses = {
        "What are your business hours?": "Our business hours are 9
        "How can I reset my password?": "You can reset your passwo
        "Do you offer international shipping?": "Yes, we ship inte
    return responses.get(input text, "I'm sorry, I didn't understa
# Sample test data
test data = [
    {"input": "What are your business hours?", "expected": "Our bu
    {"input": "How can I reset my password?", "expected": "You car
    {"input": "Do you offer international shipping?", "expected":
1
# Evaluation metrics
def evaluate chatbot(test data):
    similarities = []
    for item in test data:
        user_input = item["input"]
        expected output = item["expected"]
        actual output = chatbot response(user input)
        similarity = SequenceMatcher(None, expected output, actual
        similarities.append(similarity)
        print(f"\nUser Input: {user input}")
        print(f"Expected Response: {expected output}")
        print(f"Actual Response: {actual output}")
        print(f"Similarity Score: {similarity:.2f}")
    average similarity = sum(similarities) / len(similarities)
    print(f"\nAverage Similarity: {average_similarity:.2f}")
    return average_similarity
# Run evaluation
evaluate chatbot(test data)
```

```
⋺₹
    User Input: What are your business hours?
    Expected Response: Our business hours are 9 AM to 5 PM, Monday
    Actual Response: Our business hours are 9 AM to 5 PM, Monday
    Similarity Score: 1.00
    User Input: How can I reset my password?
    Expected Response: You can reset your password using the 'Forg
    Actual Response: You can reset your password using the 'Forg
    Similarity Score: 1.00
    User Input: Do you offer international shipping?
    Expected Response: Yes, we ship internationally. Delivery time
                       Yes, we ship internationally. Delivery time
    Actual Response:
    Similarity Score: 1.00
    Average Similarity: 1.00
    1.0
14. Make Predictions from New Input
```

import random

```
import random
# Simulated trained intents and responses
intents = {
    "greeting": ["Hello! How can I assist you today?", "Hi there!
    "hours": ["Our business hours are 9 AM to 5 PM, Monday to Fric
    "reset_password": ["You can reset your password using the 'For
    "shipping": ["Yes, we do offer international shipping. Deliver
}
# Simulated trained intents and responses
intents = {
    "greeting": ["Hello! How can I assist you today?", "Hi there!
    "hours": ["Our business hours are 9 AM to 5 PM, Monday to Fric
    "reset_password": ["You can reset your password using the 'For
    "shipping": ["Yes, we do offer international shipping. Deliver
}
```

15. Convert to DataFrame and Encode

```
import pandas as pd
# Sample chatbot training data
data = {
    "patterns": [
        "Hi", "Hello", "Hey",
        "What are your hours?", "When do you open?",
        "How can I reset my password?", "I forgot my password",
        "Do you ship internationally?", "Is overseas delivery avai
    ],
    "intent": [
        "greeting", "greeting", "greeting",
        "hours", "hours",
        "reset_password", "reset_password",
        "shipping", "shipping"
```

```
10/05/2025. 13:04
                                                      Untitled4.ipynb - Colab
   }
   # Convert to DataFrame
   df = pd.DataFrame(data)
   print("DataFrame:\n", df)
        DataFrame:
                                 patterns
                                                  intent
        0
                                      Ηi
                                               greeting
        1
                                   Hello
                                               greeting
        2
                                     Hey
                                               greeting
                     What are your hours?
                                                  hours
        4
                                                  hours
                        When do you open?
        5
             How can I reset my password? reset password
        6
                     I forgot my password reset password
             Do you ship internationally?
                                               shipping
        8 Is overseas delivery available?
                                               shipping
   from sklearn.preprocessing import LabelEncoder
   from sklearn.feature extraction.text import CountVectorizer
   # Encode the intent labels
   le = LabelEncoder()
   df['intent_encoded'] = le.fit_transform(df['intent'])
   # Convert user input text to numerical features
   vectorizer = CountVectorizer()
   X = vectorizer.fit_transform(df['patterns']).toarray()
   # Labels
   y = df['intent_encoded']
   print("\nEncoded Intents:\n", df[['intent', 'intent_encoded']])
   print("\nFeature Names (Vocabulary):\n", vectorizer.get_feature_na
   print("\nVectorized Input Features:\n", X)
    \rightarrow
        Encoded Intents:
                   intent intent encoded
        0
                greeting
                                      0
        1
                greeting
        2
                greeting
                                      0
        3
                   hours
                                      1
                   hours
                                      1
        5
                                      2
          reset_password
                                      2
           reset_password
                                      3
        7
                shipping
        8
                                      3
                shipping
        Feature Names (Vocabulary):
         ['are' 'available' 'can' 'delivery' 'do' 'forgot' 'hello' 'he
         'hours' 'how' 'internationally' 'is' 'my' 'open' 'overseas'
         'reset' 'ship' 'what' 'when' 'you' 'your']
        Vectorized Input Features:
         [1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1]
```

```
[0\ 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0\ 1\ 1\ 0]
      [0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 1 0 0 0 0 0]
      [0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0]
      [0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0]
      [0 1 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0]
from sklearn.naive bayes import MultinomialNB
model = MultinomialNB()
model.fit(X, y)
# Predict new input
new input = ["How do I change my password?"]
new_vector = vectorizer.transform(new_input).toarray()
predicted = model.predict(new vector)
# Decode predicted intent
predicted_intent = le.inverse_transform(predicted)
print("\nPredicted intent:", predicted intent[0])
→
     Predicted intent: reset password
16. Predict the Final Grade
import pandas as pd
# Sample chatbot performance data
data = {
    "accuracy": [0.85, 0.90, 0.80, 0.75, 0.95],
    "response_time": [1.2, 0.8, 1.5, 1.8, 0.5], # seconds
    "queries resolved": [90, 95, 80, 70, 98],
                                                # out of 100
    "user_satisfaction": [4.5, 4.8, 4.2, 3.9, 4.9], # out of 5
    "final_grade": [88, 92, 85, 78, 95]
                                                # target to predi
}
df = pd.DataFrame(data)
print("Chatbot Performance Data:\n", df)
    Chatbot Performance Data:
         accuracy response_time queries_resolved user_satisfacti
     0
            0.85
                            1.2
                                                90
                                                                  4.
     1
            0.90
                            0.8
                                                95
                                                                  4.
     2
            0.80
                            1.5
                                                80
                                                                  4.
                                                70
     3
            0.75
                            1.8
                                                                  3.
     4
            0.95
                            0.5
                                                98
                                                                  4.
from sklearn.linear_model import LinearRegression
from sklearn.model selection import train test split
from sklearn.metrics import mean_squared_error
# Features and target
X = df.drop(columns=["final_grade"])
y = df["final_grade"]
```

```
# Split data
X_train, X_test, y_train, y_test = train_test_split(X, y, test_siz
# Train the model
model = LinearRegression()
model.fit(X_train, y_train)
# Evaluate
y pred = model.predict(X test)
print("\nPredicted Grade(s):", y_pred)
print("Actual Grade(s):", y_test.values)
print("MSE:", mean squared error(y test, y pred))
\rightarrow
     Predicted Grade(s): [92.52844837]
     Actual Grade(s): [92]
     MSE: 0.27925768396293
# New chatbot performance input (as an example)
new chatbot metrics = pd.DataFrame([{
    "accuracy": 0.88,
    "response time": 1.0,
    "queries resolved": 93,
    "user satisfaction": 4.6
}])
predicted grade = model.predict(new chatbot metrics)
print("\nPredicted Final Grade for New Input:", predicted grade[0])
→
     Predicted Final Grade for New Input: 90.68104547623025
  17. Deployment-Building an Interactive App
pip install streamlit
→ Collecting streamlit
       Downloading streamlit-1.45.0-py3-none-any.whl.metadata (8.9
     Requirement already satisfied: altair<6,>=4.0 in /usr/local/li
     Requirement already satisfied: blinker<2,>=1.5.0 in /usr/local
     Requirement already satisfied: cachetools<6,>=4.0 in /usr/loca
     Requirement already satisfied: click<9,>=7.0 in /usr/local/lik
     Requirement already satisfied: numpy<3,>=1.23 in /usr/local/li
     Requirement already satisfied: packaging<25,>=20 in /usr/local
     Requirement already satisfied: pandas<3,>=1.4.0 in /usr/local/
     Requirement already satisfied: pillow<12,>=7.1.0 in /usr/local
     Requirement already satisfied: protobuf<7,>=3.20 in /usr/local
     Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib/
     Requirement already satisfied: requests<3,>=2.27 in /usr/local
     Requirement already satisfied: tenacity<10,>=8.1.0 in /usr/loc
     Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/l
     Requirement already satisfied: typing-extensions<5,>=4.4.0 in
     Collecting watchdog<7,>=2.1.5 (from streamlit)
       Downloading watchdog-6.0.0-py3-none-manylinux2014 x86 64.whl
                                                   - 44.3/44.3 kB 3.2
     Requirement already satisfied: gitpython!=3.1.19,<4,>=3.0.7 ir
```

}

```
Collecting pydeck<1,>=0.8.0b4 (from streamlit)
       Downloading pydeck-0.9.1-py2.py3-none-any.whl.metadata (4.1
     Requirement already satisfied: tornado<7,>=6.0.3 in /usr/local
     Requirement already satisfied: jinja2 in /usr/local/lib/pythor
     Requirement already satisfied: jsonschema>=3.0 in /usr/local/l
     Requirement already satisfied: narwhals>=1.14.2 in /usr/local/
     Requirement already satisfied: gitdb<5,>=4.0.1 in /usr/local/l
     Requirement already satisfied: python-dateutil>=2.8.2 in /usr/
     Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/
     Requirement already satisfied: tzdata>=2022.7 in /usr/local/li
     Requirement already satisfied: charset-normalizer<4,>=2 in /us
     Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/
     Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/loca
     Requirement already satisfied: certifi>=2017.4.17 in /usr/loca
     Requirement already satisfied: smmap<6,>=3.0.1 in /usr/local/l
     Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/]
     Requirement already satisfied: attrs>=22.2.0 in /usr/local/lik
     Requirement already satisfied: jsonschema-specifications>=2023
     Requirement already satisfied: referencing>=0.28.4 in /usr/loc
     Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/li
     Requirement already satisfied: six>=1.5 in /usr/local/lib/pyth
     Downloading streamlit-1.45.0-py3-none-any.whl (9.9 MB)
                                                - 9.9/9.9 MB 51.0 ME
     Downloading pydeck-0.9.1-py2.py3-none-any.whl (6.9 MB)
                                               - 6.9/6.9 MB 70.9 ME
     Downloading watchdog-6.0.0-py3-none-manylinux2014_x86_64.whl (
                                                - 79.1/79.1 kB 7.1 N
     Installing collected packages: watchdog, pydeck, streamlit
     Successfully installed pydeck-0.9.1 streamlit-1.45.0 watchdog-
# app.py
import streamlit as st
import random
# Define intents and responses
intents = {
    "greeting": ["Hello! How can I assist you today?", "Hi there!
    "hours": ["Our business hours are 9 AM to 5 PM, Monday to Fric
    "reset password": ["You can reset your password using the 'For
    "shipping": ["Yes, we offer international shipping. Delivery t
    "fallback": ["I'm sorry, I didn't understand that. Could you p
# Simple intent prediction (keyword-based)
def predict_intent(user_input):
    user input = user input.lower()
    if any(greet in user input for greet in ["hello", "hi", "hey"]
        return "greeting"
    elif "hours" in user input or "open" in user input:
        return "hours"
    elif "password" in user_input or "reset" in user_input:
        return "reset password"
    elif "shipping" in user_input or "international" in user_input
        return "shipping"
    else:
        return "fallback"
# Get chatbot response
def get response(user input):
```

```
intent = predict intent(user input)
    return random.choice(intents[intent])
# Streamlit app
st.set page config(page title="Customer Support Chatbot", layout="
st.title("  Intelligent Customer Support Chatbot")
user_input = st.text_input("You:", placeholder="Ask me something..
if st.button("Send") and user input:
    response = get_response(user_input)
    st.markdown(f"**Chatbot:** {response}")
    2025-05-10 07:33:16.442 WARNING streamlit.runtime.scriptrunner
     2025-05-10 07:33:16.444 WARNING streamlit.runtime.scriptrunner
     2025-05-10 07:33:16.594
       Warning: to view this Streamlit app on a browser, run it wit
       command:
         streamlit run /usr/local/lib/python3.11/dist-packages/cola
     2025-05-10 07:33:16.596 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.597 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.599 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.600 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.601 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.602 Session state does not function when r
     2025-05-10 07:33:16.603 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.605 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.607 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.608 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.609 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.610 Thread 'MainThread': missing ScriptRur
     2025-05-10 07:33:16.611 Thread 'MainThread': missing ScriptRur
```

!streamlit run app.py

Usage: streamlit run [OPTIONS] TARGET [ARGS]...
Try 'streamlit run --help' for help.

Error: Invalid value: File does not exist: app.py

Enter a prompt here



0/2000

Gemini can make mistakes, so double-check responses and use code with caution. <u>Learn more</u>