ARTIFICIAL INTELLIGENSE

MAJOR PROJECT

nyshadivangara@gmail.co

Developing a chatbot equipped with sentiment analysis capabilities. The chatbot will analyse the sentiment of the user's input. The sentiment analysis component will determine whether the user's message expresses a positive, negative, or neutral sentiment. This project combines natural language processing (NLP) techniques, machine learning algorithms To Find the Sentiment of User.

pip install transformers torch flask

from transformers import pipeline

from flask import Flask, request, jsonify

sentiment\_analyzer = pipeline('sentiment-analysis')

app = Flask(\_name\_)

def analyze\_sentiment(user\_input):

result = sentiment\_analyzer(user\_input)

return result[0]

def generate\_response(sentiment):

if sentiment['label'] == 'POSITIVE':

response = "I'm glad you're feeling positive!"

elif sentiment['label'] == 'NEGATIVE':

response = "I'm sorry to hear that. How can I help?"

else:

response = "Thanks for sharing. How can I assist you?"

return response

@app.route('/chat', methods=['POST'])

def chat():

user\_input = request.json.get('message')

sentiment = analyze\_sentiment(user\_input)

response = generate\_response(sentiment)

return jsonify({

'input': user\_input,

'sentiment': sentiment,

'response': response

})

if \_name\_ == '\_main\_':

app.run(debug=True)