INTRODUCTION

Disease Prediction system is based on predictive modeling .It predicts the disease of the user on the basis of the symptoms that user provides as an input to the system. The system analyzes the symptoms provided by the user and predicts the disease. With big data growth in biomedical and health care communities, accurate analysis of medical data benefits early disease detection, patient care. The Proposed system will consider both structure and unstructured data. The Predictions Accuracy will Increase using Machine Learning.The accuracy of risk prediction depends on the diversity 0f symptoms.

GATHERING PUBLIC’S ATTENTION

*You want users to remember your app’s name, and at the same time, you want them to quickly figure out what your app is about. This can be done with your app’s title.*

*you can add a brief app description, like “Learn Languages,” to the title.*

*An app icon is a small image that visualizes the app. A good-looking, interesting icon can help influence the number of user clicks on the app.*

print('2.Vomiting and diarrhoea\n')

print('3.Respiratory infections\n')

print('4.Other diseases\n')

c=int(input('Enter your choice(1,2,3,4) '))

if c==1:

print('1.Rash on soles and palm and in mouth and fever\n')

print('2.Flat ring shaped rash\n')

print('3.Coughing,sneezing and contact with weeping blister,fever and spots with blister\n')

print('4.Itchy rash\n')

print('5.Blister on the body which burst and then into scabby sores\n')

print('What are your symtoms?(1,2,3,4,5)\n')

cs=int(input())

if cs==1:

print('You are likely to suffer from hand,foot and mouth disease')

elif cs==2:

print('You are likely to suffer from Ringworms\nYou can lessen the spreading of the diseases by undertaking the following\nKeep your skin clean and dry\nkeep your finger nails and toenails short\n')

elif cs==3:

print('You are likely to suffer from Chickenpox\nYou can lessen the spreading of the diseases by undertaking the following\nAvoid being in proximity of people\n')

elif cs==4:

print('You are likely to suffer from scabbies\nYou can lessen the spreading of the diseases by undertaking the following\nUse protecctive garments\nWash your hands\n')

elif cs==5:

print('You are likely to suffer from Impetigo\nYou can lessen the spreading of the diseases by undertaking the following\nUse alcohol hand rubs\nAvoid sharing personal items like towel or comb\n')

elif c==2:

print('1.Nausea,stomach pain,general sickness,jaundience a few days later\n')

print('2.Nausea diarrhoea and vomiting\n')

print('3.High incidence of bloody diarrhoea,stomach pain,high rate of hesipitilisation and complications\n ')

print('4.diarrhoea(may be bloody),fever,stomachpain\n')

print('What are your symtoms?(1,2,3,4)\n')

cs=int(input())

if cs==1:

print('You are likely to suffer from Hepatitis\nYou can lessen the spreading of the diseases by undertaking the following\n.Avoid blood transmission to others\nwear gloves while handling faeces,urine\n')

elif cs==2:

print('You are likely to suffer from Rotovirus\nYou can lessen the spreading of the diseases by undertaking the following\nAvoid physical contacts with others(virus can live hrs on hands and 8 days on objects)\n')

elif cs==3:

print('You are likely to suffer from Verocytoxin\nYou can lessen the spreading of the diseases by undertaking the following\nAvoid going to public places as it is easily transmitted\n')

elif cs==4:

print('You are likely to suffer from Shigella\nYou can lessen the spreading of the diseases by undertaking the following\nDont prepare food for others\navoid sexual contacts\n')

elif c==3:

print('1.Sudeen onset of feverwith cough,sore throat,headache\n')

print('2.Headache,vomitting,sorethroat\n')

print('3.Runny nose,persistant cough followed by whoop,vomiting or breathlessness\n')

print('What are your symtoms?(1,2,3)\n')

cs=int(input())

if cs==1:

print('You are likely to suffer from Influenza\nYou can lessen the spreading of the diseases by undertaking the following\n use mask as the disease is airborne\navoid blood transmission\n')

elif cs==2:

print('You are likely to suffer from Shroptococcal sore throat\nYou can lessen the spreading of the diseases by undertaking the following\ncover mouth and nose while coughing or sneezing\n')

elif cs==3:

print('You are likely to suffer from Pertussis\n')

elif c==4:

print('1.Iritation and redness of eye sometimes discharge from eye\n')

print('2.Fever,vomiting,rash,headache\n')

print('3.Pain in jaw,swelling infront of earand fever\n')

print('What are your symtoms?(1,2,3)\n')

cs=int(input())

if cs==1:

print('You are likely to suffer from Conjunctivitis\nYou can lessen the spreading of the diseases by undertaking the following\ndont share items like pillows,eyedrops with others\ndont touch eyes with unwashed hands\n')

elif cs==2:

print('You are likely to suffer from meningitis\nYou can lessen the spreading of the diseases by undertaking the following\nisolate yourself\navoid negative passive ventilation\n')

elif cs==3:

print('You are likely to suffer from Mumps\nYou can lessen the spreading of the diseases by undertaking the following\navoid interaction with people untill 5 days after symtoms start\ncover mouth and nose with tissue while coughing or sneezing\n')

**APPLICATION**

For healthcare apps, data could be gathered on reported symptoms and diagnoses. Many healthcare mobile apps already use their data to do predictive analysis of a particular patient and their conditions. If such healthcare apps open source their data related to reported epidemic diseases, then the CDC can use this information to make accurate predictions across all cities. If these on-demand apps had their healthcare app developers create a simple HIPAA compliant API, then the CDC, WHO, and other organizations could further enhance predictive models with real-time, possible outbreak data obtained from the apps

**CONCLUSION**

The existing system can be enhanced in several ways such as by automatically inferring information from social media posts or by using a chatbot application to retrieve symptoms which would have then been mapped onto the most appropriate disease. The system could also be integrated with the existing information system implemented in pharmacies. The prediction for other common diseases also could have been considered if more datasets were made available. The use of different machine learning algorithms, and consequently their percentage accuracy, could have been investigated