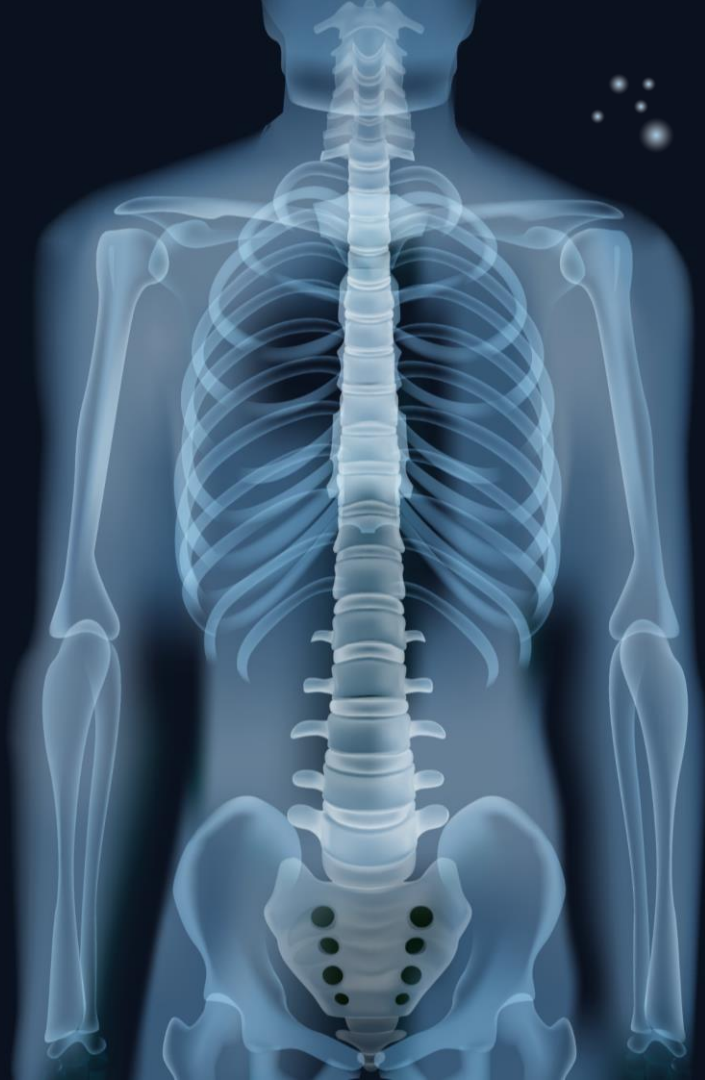


Medicine Recommendation System

A Machine Learning Project



Members

- William itotia
- Firdosa mohamed
- Esther munene
- Frank oyugi



Table of contents

01 Business Understanding

02 Data understanding

03 Data preparation

04 Modeling

05 Recommendations





Overview

In the modern healthcare landscape, access to medical advice and treatment has become increasingly important. With the rise of digital technologies, there is a growing demand for remote healthcare solutions that can provide accurate recommendations without the need for physical hospital visits. This project aims to develop a recommendation system that suggests appropriate medicines based on the symptoms reported by individuals. The system leverages advanced machine learning algorithms and extensive medical databases to deliver precise and reliable recommendations.





01

Problem Statement

Many individuals face challenges in accessing timely and accurate medical advice due to various factors such as geographical barriers, busy schedules, and overcrowded healthcare facilities. These challenges often lead to delayed diagnosis and treatment, potentially worsening health conditions. There is a need for a solution that can provide immediate, reliable, and personalized medical recommendations based on symptoms, thereby improving accessibility to healthcare and reducing the strain on medical facilities.

Objectives

- To gather a repository of detailed descriptions for a wide range of diseases, including causes, symptoms, and treatment options.
- To develop and train a machine learning model on extensive medical data to predict possible diseases based on the input symptoms.
- To give detailed descriptions of the predicted disease.
- To recommend appropriate medications based on the predicted disease.
- To integrate a user-friendly interface for individuals to input their symptoms.



User Interface



User Interface

SymptoFinder - Disease Prediction System

Enter symptoms separated by commas to get a disease prediction along with details.

Input Symptoms (e.g., itching, skin_rash):

Predict

Results

Input Symptoms (e.g., itching, skin_rash):

bladder_discomfort

Predict

Predicted Disease: Urinary tract infection

Description: Urinary tract infection is an infection in any part of the urinary system.

Precautions:

- drink plenty of water
- increase vitamin c intake
- drink cranberry juice
- take probiotics

Medications:

- ['Antibiotics', 'Urinary analgesics', 'Phenazopyridine', 'Antispasmodics', 'Probiotics']





Conclusion

This system is highly accurate in predicting diseases, providing descriptions and precautions to take, and recommending medications. However, not every existing symptom will return a result.



Recommendations

It is vital to remember that this system does not replace a doctor. It is merely a guide to help understand one's symptoms and take appropriate actions. It is designed to be used by individuals who cannot access a medical facility despite being in urgent need of medical care. Seeking advice from medical professionals is highly encouraged.

THANK YOU

Ask questions if you have any

