An Industrial Training Report on
“Disease Prediction WebApp”

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE

OF

BACHELOR OF TECHNOLOGY

in

Computer Science and Engineering

(Session: 2020-2021)

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Declaration

I hereby declare that the industrial training report which is being presented on, **"Disease Prediction WebApp"** submitted to "**Krishna Engineering College**" in the partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology** in **Computer Science and Engineering,** is an authentic record of my own work .

The matter embodied in this report has not been submitted by me for the award of any other degree.

Dev Sharma (Roll no: 1716110061)

Place: Ghaziabad

Date: 08/01/2021

Acknowledgement

I would like to express my sincere thanks to my guide and staff in charge **Mr. Name of Proctor, Assistant Professor, CSE Department**, for her vital support, valuable guidance and for providing us with all facility and guidance for presenting assisting us in times of need.

I would also take this opportunity to express my heartfelt gratitude to **Dr. Pramod Kumar, Head of Department, CSE Department**, for his valuable support and cooperation in the presentation of this paper.

I am thankful to my friends for their lively discussion and suggestions .Finally I would like to thank the almighty who have given me all that is required for the successful completion of my seminar.

Sincerely
Dev Sharma

Date:

Place: Ghaziabad

Preface

I have made this report on the app “follow-up tracker”. I have tried my best to elucidate all the relevant detail to the topic to be included in the report. While in the beginning I have tried to give a general view about this topic.

My efforts and whole-hearted corporation of each and everyone has ended on a successful note. I express my sincere gratitude to everyone who assisted me throughout the preparation of this topic. I thank them for providing me the reinforcement, confidence and most importantly the track for the topic whenever I needed it.

Abstract

“Disease Prediction” system based on predictive modeling 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 as input and gives the probability of the disease as an output.

Disease Prediction is done by implementing the Random Forest Classifier. Random Forest Classifier calculates the probability of the disease. Therefore, average prediction accuracy probability is > 80% is obtained.

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Introduction

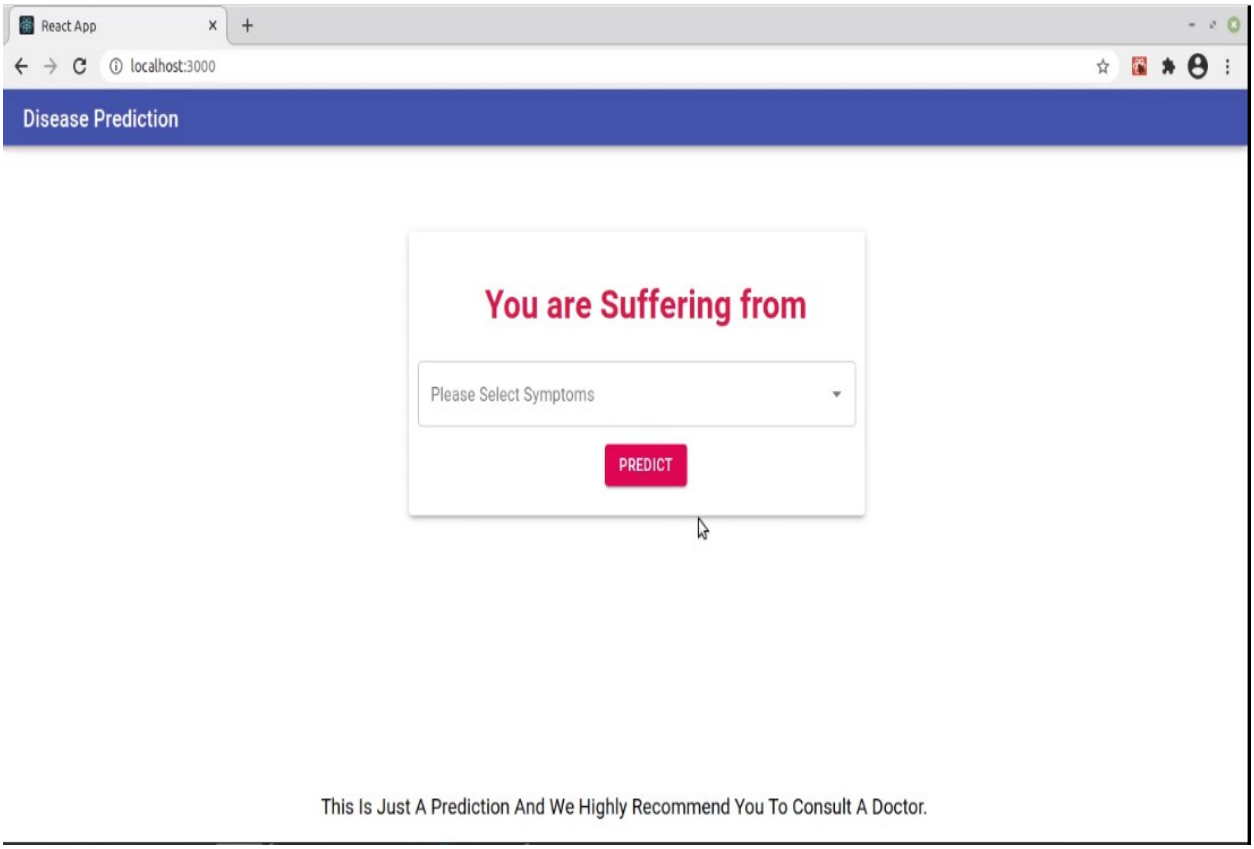
At present, when one suffers from particular disease, then the person has to visit to doctor which is time consuming and costly too. Also if the user is out of reach of doctor and hospitals it may be difficult for the user as the disease can not be identified. So, if the above process can be completed using a automated program which can save time as well as money, it could be easier to the patient which can make the process easier. There are other Heart related Disease Prediction System using data mining techniques that analyzes the risk level of the patient.

Disease Predictor is a web based application that predicts the disease of the user with respect to the symptoms given by the user. Disease Prediction system has data sets collected from different health related sites. With the help of Disease Predictor the user will be able to know the probability of the disease with the given symptoms.

As the use of internet is growing every day, people are always curious to know different new things. People always try to refer to the internet if any problem arises. People have access to internet than hospitals and doctors. People do not have immediate option when they suffer with particular disease. So, this system can be helpful to the people as they have access to internet 24 hours.

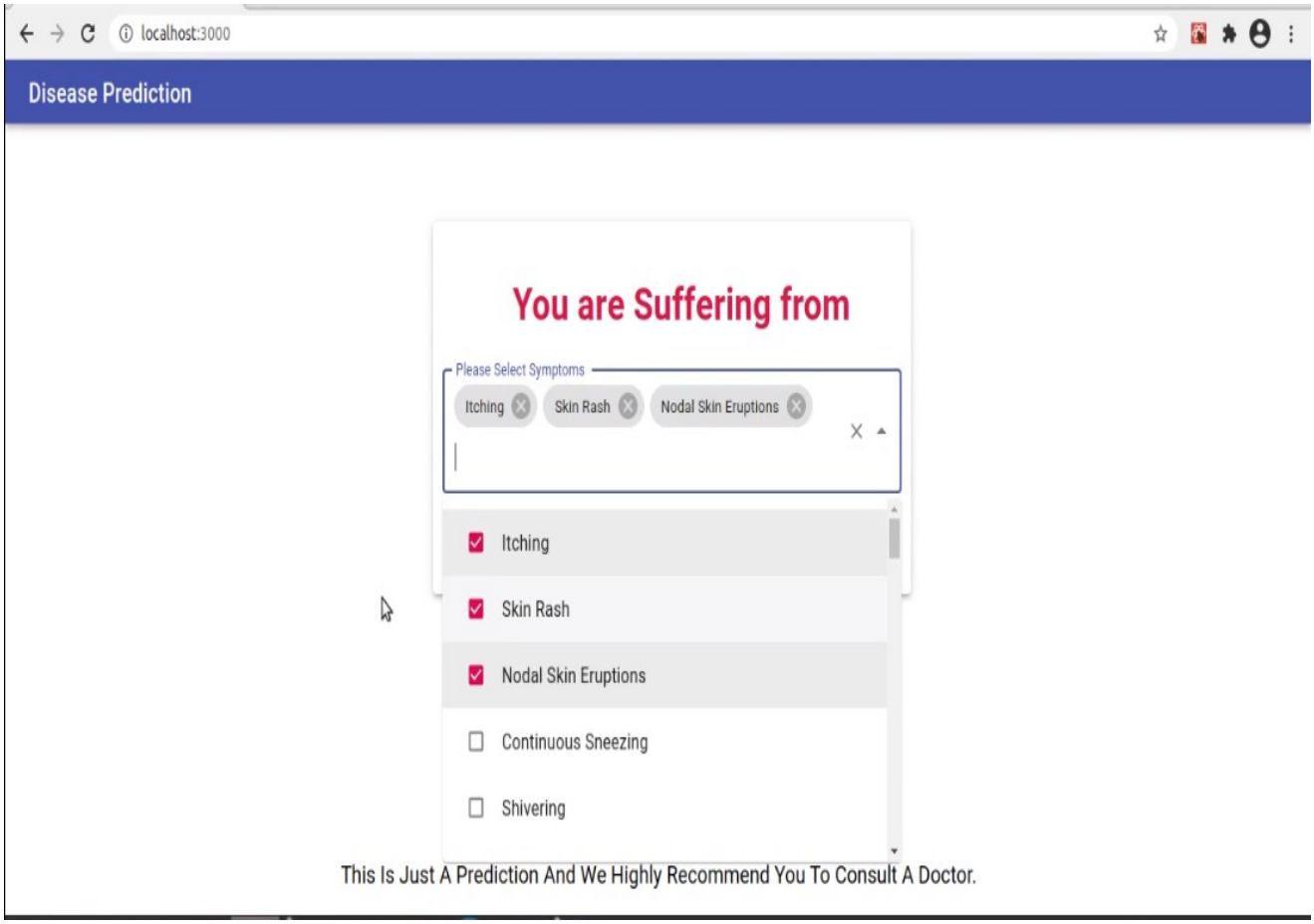
Project Scope

There are many tools related to disease prediction. But particularly heart related diseases have been analyzed and risk level is generated. But generally there are no such tools that are used for prediction of general diseases. So Disease Predictor helps for the prediction of the general diseases.

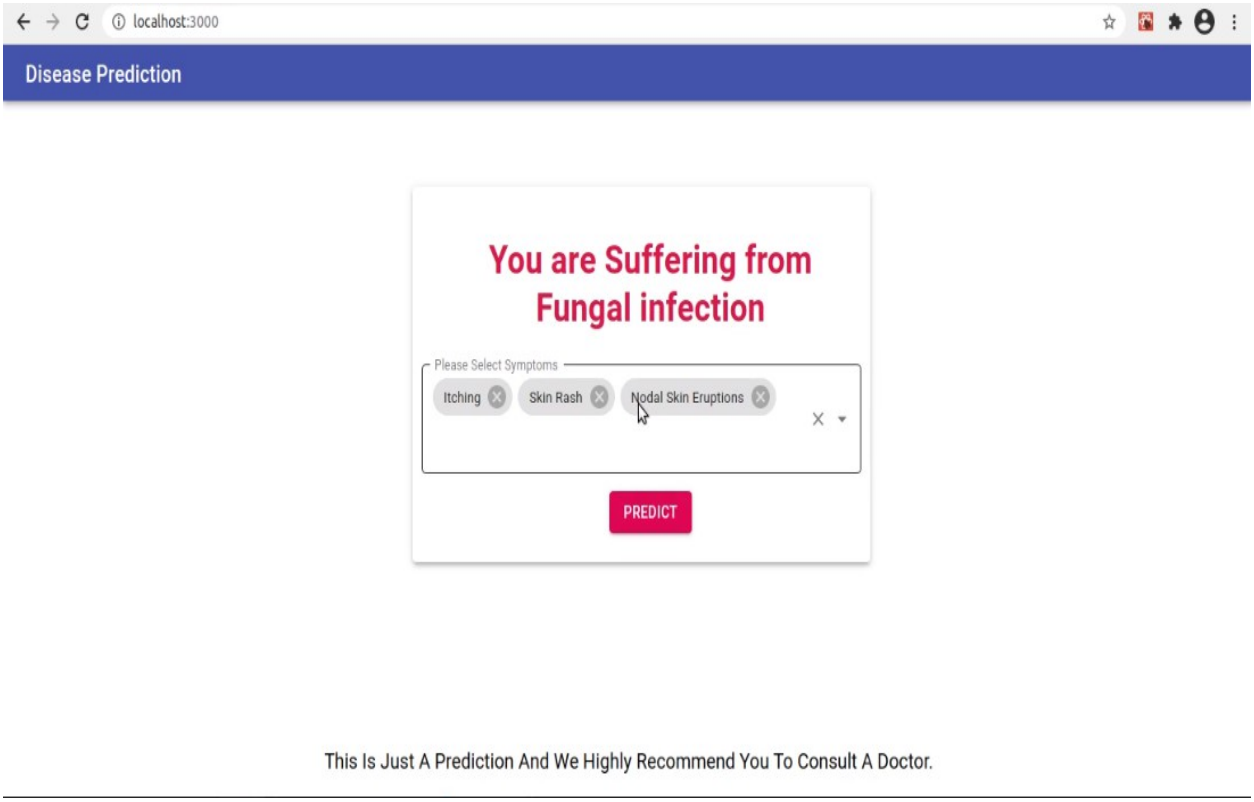


Functioning

It is a Dynamic web-app that can predict “Disease” on feeding with appropriate “symptoms”. The user just have to click on the checkbox mentioning the symptom, and after selection all the symptoms user has to click on submit button. The predicted disease will be printed on the screen.



As the user click on the submit button all the data is sent to the django backend for processing. In the django backend all the data is sent to machine learning model ,and after processing the data, it return the resulted disease which will be displayed on the screen.

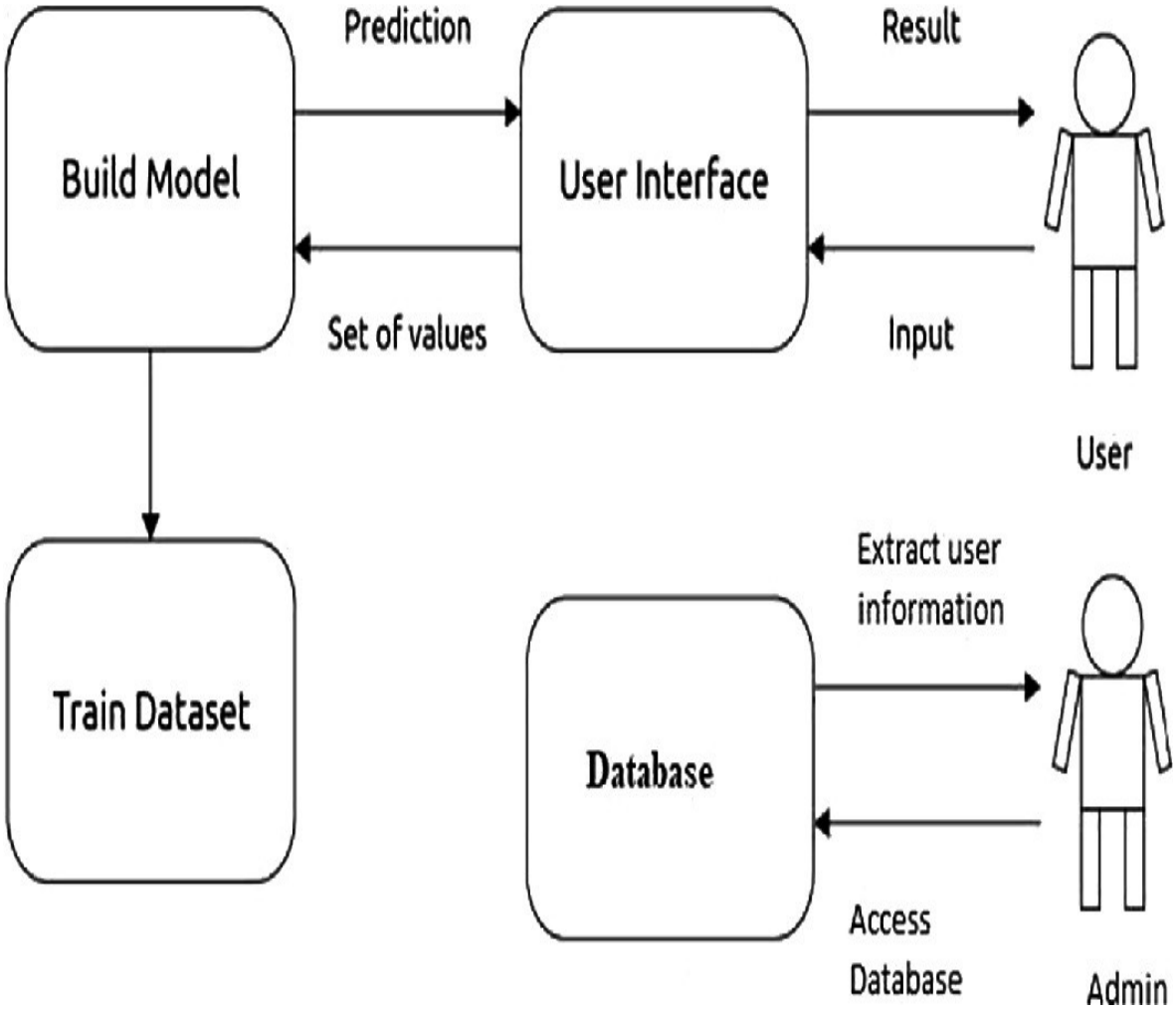

localhost:3000
Disease Prediction
You are Suffering from
Fungal infection
Please Select Symptoms
Itching
Skin Rash
Nodal Skin Eruptions
PREDICT
This Is Just A Prediction And We Highly Recommend You To Consult A Doctor.

Purpose

At present, when one suffers from particular disease, then the person has to visit to doctor which is time consuming and costly too. Also if the user is out of reach of doctor and hospitals it may be difficult for the user as the disease can not be identified. So, if the above process can be completed using a automated program which can save time as well as money, it could be easier to the patient which can make the process easier. There are other Heart related Disease Prediction System using data mining techniques that analyzes the risk level of the patient.

Disease Predictor is a web based application that predicts the disease of the user with respect to the symptoms given by the user. Disease Prediction system has data sets collected from different health related sites. With the help of Disease Predictor the user will be able to know the probability of the disease with the given symptoms.

Architecture



Concept

I can conclude that by using this webapp that can predict “Disease” on feeding with appropriate “symptoms”. Where the user just have to click on the checkbox mentioning the symptom, and after selection all the symptoms user has to click on submit button. The predicted disease will be printed on the screen. It can come in handy when the patient need urgent first-Aid.

Conclusion

This project aims to predict the disease on the basis of the symptoms. The project is designed in such a way that the system takes symptoms from the user as input and produces output i.e. predict disease. Average prediction accuracy probability of 55% is obtained. Disease Predictor was successfully implemented using Django framework.

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