Chronic Kidney Disease Prediction

UNDERGRADUATE PROJECT

Submitted in partial fulfillment of the requirements of Artificial Intelligence of expert System for the degree of B.Sc. Engg in CSE

BY

Group 6

UNDER SUPERVISION OF:

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Declaration of Authorship

We, Kazi Israt Hassan Eva, Sourov Karmokar, Abdullah Asif Bin Mizan ,

, Nazmul Hasan Fuad declare this project "Chronic Kidney Disease Prediction" and the work presented in it are our own. We confirm that:

- ✔ This work was done mainly for B.Sc. Engineering in CSE degree at this university.
- ✔ Where any part of this project has been submitted for a qualification from this university.
- ✔ We have acknowledged all main sources of help.
- ✔ We have consulted the published work of others, this is always clearly attributed.

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Certificate

This is to certify that the project entitled **“**Chronic Kidney Disease Prediction**”** is submitted by Kazi Israt Hassan Eva (19202103016),Sourov Karmokar (19202103020), Abdullah Asif Bin Mizan , Nazmul Hasan Fuad in partial fulfillment of the requirements of embodies the work done by them under my supervision.

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Dedication

Dedicated to our loving parents and all honorable teachers for all their love and inspiration.

Abstract

For making an effective working environment for a coaching center and ensuring more productivity with a digitized working interface, we choose this project. With these project-students, teachers and other members get an effective approach being more productive.

Physical keys are the most natural way to lock or open a door, and everyone is familiar with it. Although the physical key is well-proven and well-known technology, it is not without faults. For a lock, there can only be one unique key. Different keys are required for various locks. Carrying a big number of keys is also inconvenient. Digital locks are keyless door locks that let you unlock your door without having to use a real key.

A digital lock is an electromagnetic lock that is meant to lock and unlock a door when it receives instructions from an authorized device and executes the authorization procedure using a cryptographic key.

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Last but not the least; we are highly grateful to our parents and family members for supporting us spiritually throughout writing this thesis and our life in general.

Approval

This project "**Online Virtual Assistance''** submitted by **Md. Rubayet Islam Ifti (19201103052), Md. Rashadujjaman Rafi (19201103053), Nabil Hossain Zidan (19201103069), Hafizul Islam(19201103078)** Department of Computer Science and Engineering (CSE), Bangladesh University of Business and Technology, under the supervision of **Humayra Ahmed, Lecturer, Department of Computer Science and Engineering (CSE)** has been accepted as satisfactory for the partial fulfillment of the requirement for the degree of Bachelor of Science (B.Sc.) in Computer Science and Engineering and approved as to its style and contents.

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Chapter One

Introduction

1.1 Introduction

VAs provide services remotely. They offer services that would normally be done by a personal assistant in offices, for example admin support, call minding, message taking, diary management, filtering emails, bookkeeping, marketing, project support, typing, internet research, cold calling etc. Reputable VAs are experienced and focused self-employed professionals who work independently to your deadlines – they are not temps.

1.2 Motivation

The computer voice and conversational system on board the Starship Enterprise in science fiction TV series and movies, beginning with Star Trek: The Original Series and Star Trek: The Next Generation. Our inspiration is also same. We inspired it from Alexa, google assistant, and a movie character J.A.R.V.I.S. is a Tony Stark A.I. in marvel cinematic universe.

1.3 Project Objectives

Voice assistants are devices that use voice recognition technology, natural language processing, and AI to respond to humans. Using the technology, the device synthesizes the user's message, breaks it down, evaluates it, and offers a meaningful response in return. Voice assistant brands such as Siri and Alexa belong to the first category. Conversely, voice chatbots or voice-bots are usually the second type where the assistant is integrated into an app to help its users navigate the service.

1.4 Contribution

This project contributes for us. We can get knowledge about python and all other extension. We will discuss about our extension and software requirements in next Chapter 2. So, this project important for us.

1.5 Conclusion

In this project user can know about our basic information of our project. Section 1.1 introduced about this project. Section 1.2 is our motivation, inspiration of this project. Section 1.3 is our project objectives and section 1.4 is contribution of this project to us, to customers.

Chapter Two

Software Requirements

2.1 Introduction

This section or chapter we will discuss about the extensions of our project. Basically, this project is software project.

2.2 Python

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library.

2.3 Software

PyCharm is an Integrated Development Environment (IDE) used for programming in Python. It provides code analysis, a graphical debugger, an integrated unit tester, integration with version control systems (VCSes), and supports web development with Django. PyCharm is developed by the Czech company JetBrains. It is cross-platform working on Windows, Mac OS X and Linux. PyCharm has a Professional Edition, released under a proprietary license and a Community Edition released under the Apache License. PyCharm Community Edition is less extensive than the Professional Edition.

Memory: 500Mb

2.4 Extensions

speech_recognition – For voice command
datetime – For date and time
Wikipedia – For Wikipedia

2.5 Hardware

Operating System: Windows 10/11

Memory: 4GB

2.6 Conclusion

This chapter is mainly written for an engineer. In this chapter we discuss about Python, Software, Extensions and Hardware. That’s it.

Chapter Three

The Project

3.1 Introduction

In this chapter readers we will be known about our project. Readers will be known about the program of our project. Readers will be known about how we implement this, all the connections and output of our project.

3.2 Methodology

```
import speech_recognition as sr
import pyttsx3 as py
import pywhatkit as ps
import datetime as dt
import wikipedia as wiki
import py_search as sra
from selenium import webdriver

listne = sr.Recognizer()
eng = py.init()
voices = eng.getProperty('voices')
eng.setProperty('voice',voices[1].id)

def talk(text):
    eng.say(text)
    eng.runAndWait()
def take():
    try:
        with sr.Microphone() as source:
            print('Please Told Something...')
            voice = listne.listen(source)
            com = listne.recognize_google(voice)
            com = com.lower()
            if 'google' in com:
                com = com.replace('google','')
                print(com)
    except:
        pass
    return com

def run():
    com = take()
    print(com)
    if 'play' in com:
        song = com.replace('play','')
        talk('Playing ' + song)
        ps.playonyt(song)
    elif 'time' in com:
        time = dt.datetime.now().strftime('%I:%M:%S %p')
        print(time)
        talk('Current time is ' + time)
    elif 'date' in com:
        dat = dt.date.now().date('%DD/%MM/%YY')
        print(dat)
        talk('Current time is ' + dat)
```

```
    elif 'search' in com:
        pr = com.replace('search', '')
        info = wiki.summary(pr,1)
        print(info)
        talk(info)
    else:
        print('My bad. Please say it again.')
while True:
    run()
```

3.3 Output

```
 what is the time
 what is the time
10:54:33 PM
Please Told Something...
peter scotch
My bad. Please say it again.
Please Told Something...
Traceback (most recent call last):
```

3.4 Conclusion

In this chapter users can get knowledge about our project. In section 3.1 users know about this chapter. Section 3.2 users can know about the methodology of our project and Section 3.3 is our project pictures and output pictures.

Chapter Four

Future

4.1 Future Plan
4.2 Conclusion

4.1 Future Plan

In future we will add website search, a normal conversion, jokes. This type it is our first time. So, there is so more limitations.

4.2 Conclusion

So, this is our **Online Virtual Assistance** project. It's very simple for users.

- ✔ Chapter One is our introduction about this project.
- ✔ Chapter Two is about our required equipment.
- ✔ Chapter Three is our project and some project pictures.
- ✔ Chapter Four is our future plan and conclusion of this project.