1. This Website

Web Development

I have consumed my first year for web development. This website was idea from the developers of the multi-national companies like Amazon, Apple, Facebook. Also, seniors referred to have a website or domain of our own which will give impact to the recruiters.

This site has been built with HTML, CSS & Bootstrap 4. As I was beginner at JavaScript and jQuery, I tried to do maximum animation and effects in the website. I have also made the website responsive so that we can also see it on the mobile phones. Unfortunately, many things on website are hidden in the responsive layout. I enjoyed while designing this website and during the meantime, I have also seen websites of frontend developers that was trending for designs, the websites was so interactive that I thought frontend be plan B for my career.

I have done this website during COVID-19 Crisis.

Tools:

Html

CSS

JavaScript

jQuery

Bootstrap 4

Wow.js

Animate.css

1. Pixel Art Generator

Python Development

This was a small project for understanding tkinter and pillow which are python libraries. In this project, user will give input image to the program by selecting from a folder and program will give pixelated output image using pillow library in the same directory. This was fun, as I have done many projects in tkinter in this period it was good idea to create a cool pixelated image like in the online game Minecraft. This was my exploration in python library.

Tools:

Tkinter

Pillow

1. Global Surface Temperature Scatter

Python Development

This was small project for understanding the pandas and matplotlib python library for data collection and plotting. I downloaded the datasets from Kaggle website and created a program that will give me the scatter of the data points so to get a pattern of the rise in global temperature. I was exploring different libraries & I came to know that this library is used in data science and machine learning for data manipulation. So, I decided to explore the library.

Tools:

Pandas

Matplotlib

1. Imdb Web Scraping

Python Development

This was small project for creating a web crawler that will crawl on Imdb, the movie and show rating website to scrape the top 250 Movies, TV shows and Web Series. For this project, I used BeautifulSoup python library to scrape the website data. This was my first project in web scrapping, so I learned more things from this project about web scrapping. After this project, I have also created the Snapdeal Scrapper which scrapes the list of mobile names priced between Rs.10000 to Rs.15000. I have also created a login and registration system in Tkinter using SQLite as a database.

Tools:

BeautifulSoup

IDLE

1. Morse Code Translator

Python Development

This was my first project in my Computer Science field. In this project, user will give input in English to the program and program will translate the message into Morse code and give the output to the user. This was easy project, as it was my first python project. I can make an improvement in this project, but I will not edit this project and keep this project as a memory.

Tools:

Python

IDLE

1. Web Crawler GUI

Python Development

This was project for both web scrapping and graphical user interface using python libraries BeautifulSoup and Tkinter. In this program, user will give input URL to the program and program will crawl to that website and give the editable HTML text document to the user. If the given URL is incorrect, it will throw an error to the user. This was a project idea from a website, so I decided to try it and it worked. It was fun to learn web crawling.

Tools:

Tkinter

BeautifulSoup

1. Google Speech to Text

Python Development

I have referenced this project from towardsdatascience.com website. In this small program, I have used google recognition and PyAudio python library. When the program runs, user will talk something in the microphone and the audio of the user will go to the google cloud speech recognition server and it will return our result. As we use google cloud API, there are many different language options in the program. It is my first project in Natural Language Processing (NLP) field. I have also added audio file option. In this option, we give audio file of specific formats as input to the program and it will return the text from that audio file.

Tools:

PyAudio

Google Cloud Speech-to-Text API

IDLE

1. Trigonometric Function Curves

Python Development

In this project, I have used the NumPy library for values of trigonometric functions and matplotlib library for plotting the curves. I have plotted all trigonometric functions. I was discovering NumPy library and I saw this project on a website, so I tried it.

Tools:

NumPy

Matplotlib

1. TrueHealth

Django (Web) Development

This is my first big project in python development. I participated in Build for Digital India Contest in which we must choose a problem statement that will solve the problems in India in the field of Healthcare, Agriculture, etc.

So, Google had signed with Indian government for this contest. So, every day, I got an email regarding the coding preparation for android development, web development, machine learning and cloud computing.

The problem statement was we are left with no option to believe on the degrees displayed in the clinics of the physician treating us because of unavailability of information. In hospital, there are no degrees on display of physicians available in such hospital. We should be vigilant about the skills of physicians before handing over our life in their hands.

I came with a solution that is provide authentic information about qualification of the physician before availing treatment from the physician as well as protect patients from bogus physicians.

Tools:

Django

MySQL

Bootstrap