DOCUMENTATION:

Covid Cases Tracker using COVID-19 Coronavirus Statistics API using IBM Cloud

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Introduction:

To understand the scale of the COVID-19 outbreak, and respond appropriately, we would want to know how many people are infected by COVID-19 to analyze the mortality risk of the COVID-19 outbreak. While governments across the globe are working in collaboration with local authorities and health-care providers to track, respond, and prevent the spread of disease caused by the coronavirus. This project aims at working with an API through which a visualization dashboard for covid statistics can be developed.

The new outbreak of pneumonia triggered by a novel coronavirus (COVID-19) poses a major threat and has been declared a global public health emergency. This outbreak had first been discovered in December 2019 in Wuhan, China and until now has spread to the world. Emerging technology such as the Internet of Things (IoT) and sensor networks (SN) have been utilized widely in our everyday lives in a diversity of ways. IoT has also been an instrumental role in fighting against the COVID-19 pandemic currently out breaking across the globe, where it plays a significant role in tracking COVID-19 patients and infected people in hospitals and hotspots. This paper exhibited a survey of IoT technologies used in the fight against the deadly COVID-19 outbreak in different applications and discusses the key roles of IoT science in this unparalleled war. Research directions on discovering IoT's potentials, improving its capabilities and power in the battle, and IoT's issues and problems in healthcare systems are explored in detail. This study is intended to provide an overview of the current status of IoT applications to IoT researchers and the broader community and to inspire researchers to leverage IoT potentials in the battle against COVID-19

OVERVIEW:

By the end of this project you will:

- know how to interact with the API.
- Know how to pre-process the input data using python.
- know how to build a web application using the Flask framework.

2.LITERATURE SURVEY:

⇒existing problem:To understand the scale of the COVID-19 outbreak, and respond appropriately, we would want to know how many people are infected by COVID-19 to analyze the mortality risk of the COVID-19 outbreak. While governments across the globe are working in collaboration with local authorities and health-care providers to track, respond, and prevent the spread of disease caused by the coronavirus.

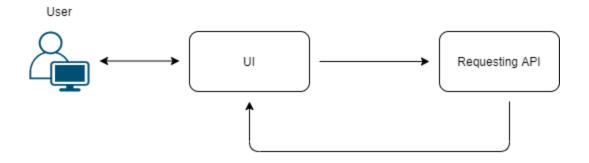
⇒proposed system:

to overcome the problem we introduce the project of Covid Cases

Tracker using COVID-19 Coronavirus Statistics API using IBM Cloud

3.THEORITICAL ANALYSIS:

⇒BLOCK DAGRAM:



⇒SOFTWARE:

Anaconda Navigator:

Anaconda Navigator is a free and open-source distribution of the Python and R programming languages for data science and machine learning related applications. It can be installed on Windows, Linux, and macOS.Conda is an open-source, cross-platform, package management system. Anaconda comes with great tools like JupyterLab, Jupyter Notebook, QtConsole, Spyder, Glueviz, Orange, Rstudio, Visual Studio Code.

python packages:

- open anaconda prompt as administrator
- type"pip install tensorflow"

•type"pip install opencv-python"
•type"pip install flask".
•jupter software
•spyder software
HARDWARE COMPONENTS:
•processor-i3
•hard disk storage-10GB
•RAM-1GB
4.EXPERIMENTAL INVESTIGATION:
→ Flask: Web framework used for building Web applications
ightarrow API: An application programming interface (API) is a computing interface which defines interactions between multiple software intermediaries.
5.FLOWCHART:
Project Flow

- The user interacts with the UI (User Interface) to select the country
- The statics of the selected country regarding corona cases is visualized on UI

To accomplish this, complete all the milestones & activities listed below

- RapidAPI Account Creation.
- Subscription of Application Oriented API.
- Building a Flask Application.
- Importing of Libraries and routing the HTML pages
- Running of flask Application.

6.RESULT:

By using this application finally user can get the results

```
C:\Users\lenovo\externship\externship\chandbi\Corona-cases-Tracker-main\Project>conda activate arth

(arth) C:\Users\lenovo\externship\externship\chandbi\Corona-cases-Tracker-main\Project>python app.py

* Serving Flask app "app" (lazy loading)

* Environment: production

WARNING: Do not use the development server in a production environment.

Use a production WSGI server instead.

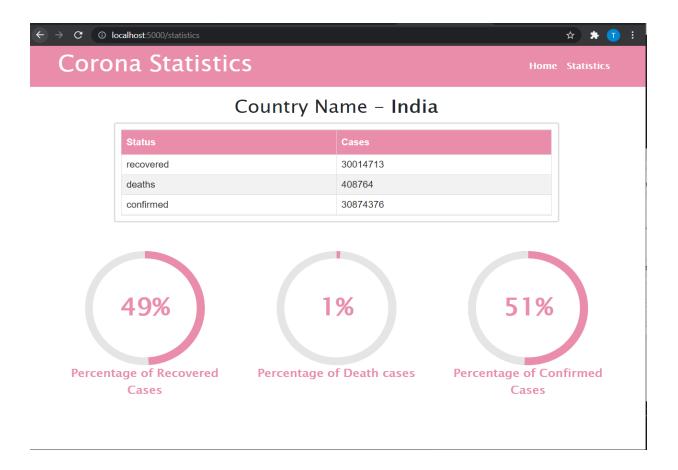
* Debug mode: on

* Restarting with stat

* Debugger is active!

* Debugger PIN: 136-265-613

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```



7.advantages and disadvantages:

advantages:

- by this we can can easily understand by code
- high accuracy
- covid -19 vacciness were developed using science that has been around for decades.

8.APPLICATION:

•Analysis of document can be easily done

•understanding climate.

9.CONCLUSION:

- •The system was mainly designed to reduce the manual work of updating and tracking and also make it easier for the user.
- •It also provides flexible and powerful reports regarding customer details ,issue details and stock details.
- •Thus inventory system was implemented successfully.

10.FUTURE SCOPE:

In future we can include more features to our application so it will useful to our project. which can be easily understandable.

COVID-19 outbreak has profoundly impacted people around the world and has fundamentally altered humanity's daily functions. Al&ML provides a comprehensive integrated healthcare network to combat a COVID-19 pandemic. The usage of Al&ML technology will reinforce the line of defense against the infection of COVID-19. Moreover, all electronic medical instruments are linked to the internet, and it automatically transmits a message to medical personnel during any critical situation. Infected cases could be treated remotely using devices with well-connected internet to monitor the

COVID-19 patients and limit the outbreak of the disease. It treats all cases smartly to provide the patients with improved treatment in the end. Finally, this chapter presents the main problems, challenges and future trends that enable AI&ML fighting against COVID-19

11.BIBILOGRAPHY:

We used saw some Reference videos in You Tube.

https://youtu.be/4y_zD-0Q3F8

https://youtu.be/BzouqMGJ41

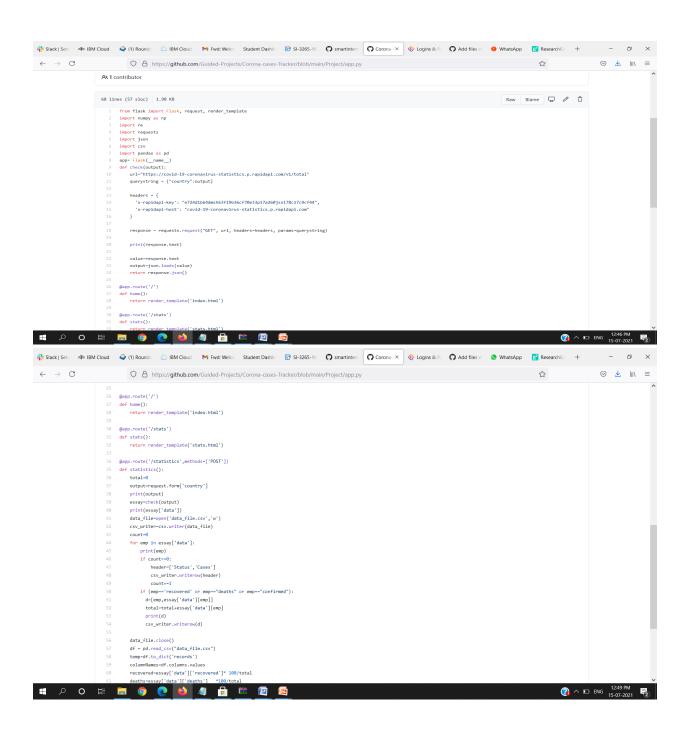
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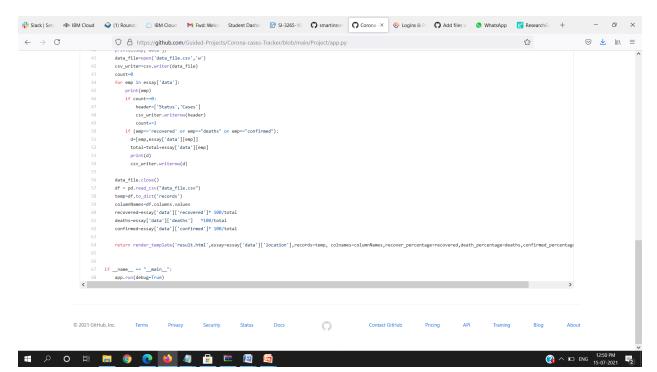
2. Matteo Brisinello, Ratko Grbi, Dejan Stefanovi and Robert PekaiKova, Optical Character Recognition on images with colorful background, 2018, IEEE 8th International Conference on Consumer Electronics – Berlin (ICCE-Berlin).

3. M.S. Akopyan, O.V. Belyaeva, T.P. Plechov and D.Y. Turdakov, Text recognition on images from social media, 2019, Ivannikov Memorial Workshop (IVMEM).

12.APPENDIX:

SOURCE CODE:





OUTPUT SCREENSHOT:





