

PROFESSIONAL TRAINING REPORT
at
Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Technology Degree in Information Technology

By
Bakya B

38120016



DEPARTMENT OF INFORMATION TECHNOLOGY
SCHOOL OF COMPUTING
SATHYABAMA INSTITUTE OF SCIENCE AND
TECHNOLOGY
JEPPIAAR NAGAR, RAJIV GANDHI SALAI,
CHENNAI – 600119. TAMILNADU

Jan 2021



SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the Bonafide work of who carried out the project entitled "" under our supervision from August 2020 to November 2020.

Internal Guide

DR.V.MARIA ANU M.E.,Ph.D.,

Head of the Department

Dr. R. Subhashini M.E., Ph.D.,

Submitted for Viva voce Examination held on -----

Internal Examiner

External Examiner

DECLARATION

I hereby declare that the Project Report entitled “**Corona disease daily case visualization** “ done by me under the guidance of Dr.V.Maria Anu M.E.,Ph.D., at Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119 is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

DATE: 23/01/2021

Place: Chennai

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey our thanks to **Dr. T. SASIKALA M.E., Ph.D., Dean, School of Computing** and **Dr. R. SUBHASHINI M.E., Ph.D., Head of the Department, Department of Information Technology** for providing us the necessary support and details at the right time during the progressive reviews.

I would like to express our sincere and deep sense of gratitude to our Project Dr.V.Maria Anu M.E,Ph.D. for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express our thanks to all Teaching and Non-teaching staff members of the Department of **INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

TRAINING CERTIFICATE



RETECH
SOLUTIONS PVT. LTD.
An ISO 9001:2015 certified company

INT: RE20S061

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **BAKYA B** student of **SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, BTECH/IT** has undergone the Internship Training through online in our concern entitled **PYTHON** from **20th Aug 2020** to **25th Aug 2020** in relevant departments related to their academic studies.

During the above period, the performance was good & we wish great success in all your future endeavours.

Technology drives the world. We are the people who are behind the technology.

Authorised Signature



No-31, 1st Floor, Alagesan Street, Tambaram West, Chennai-45.

Office : 044-42077204 | +91-8122266653

www.retechsolutions.com

COURSE CERTIFICATE

COVID19 Data Analysis Using Python





Department of
**COMPUTER
SCIENCE**
THE UNIVERSITY OF TEXAS AT DALLAS

BAKYA B

is recognized for Successful Completion of 2-day workshop

Machine Learning with Python

April 17-18, 2020

Prof. John Cole
Assoc. Director

Dr. Jey Veerasamy
Director

Dr. Gopal Gupta
CS Dept. head

Center for Computer Science Education & Outreach

Course Certificate

ABSTRACT

Corona virus disease (covid-19) Dashboard

Corona disease daily case visualization, this project contains dashboard(s) and other visualizations to monitor the outbreak.. The "Best current data source" is usually the state or territory's public health department's coronavirus-specific response page, and additional data sources are usually coronavirus-specific data dashboards or public health department web pages. We are careful to make sure that we collect data from official state/territory sources.

The implementation of above model would help one to see the data in better way and can understand easily. COVID-19 data definitions change frequently across the 56 jurisdictions we track, so we must sometimes update our data definitions to reflect the realities we find in the data. As we track additional data points and adjust the definition of current fields to accommodate changes from states and territories, we will update the definitions here. Almost all of the data we compile is taken directly from the websites of state/territory public health authorities

One can know the daily updates by clicking the country. No need to refer dataset. Readers are likely experiencing some latent anxiety, so do your best to neither make light of the situation nor be alarmist about it. One application of this is in your colour choice: You don't want your map's colour scheme or design to minimize the situation by being overly playful

or light hearted. You also don't want to select colours that suggest the worst possible outcome.

CHAPTER NO	TITLE NAME	PAGE NO
	ABSTRACT	8
1	INTRODUCTION	11
	1.1 GENERAL	11
	1.2 OUTLINE OF THE PROJECT	11
2	AIM AND SCOPE	12
	2.1 AIM	12
	2.2 PROBLEM STATEMENT	12
	2.3 SCOPE	13
3	SYSTEM ANALYSIS	13
	3.1 GENERAL	13
	3.2 TOOLS USED	14
	3.3 PROJECT DESCRIPTION	14
4	RESULT AND DISCUSSION	16
	4.1 SYSTEM REQUIREMENTS	16
5	CONCLUSION AND FUTURE WORK	16
	5.1 CONCLUSION	16
	5.2 REFERENCE	17
	APPENDIX	17
	SCREENSHOTS	17

CHAPTER 1

INTRODUCTION

1.1 GENERAL

I have made visualization to simply know the daily confirmed cases and death cases. By clicking the poles, it pop up message box which contains the data. We can choose both daily changes and cumulative changes. Tableau is a Business Intelligence tool for visually analysing the data. Users can create and distribute an interactive and shareable dashboard, which depict the trends, variations, and density of the data in the form of graphs and charts. Tableau can connect to files, relational and Big Data sources to acquire and process data.

1.2 OUTLINE OF THE PROJECT

Data visualization is having a big moment during the COVID-19 pandemic. Social media feeds are inundated with infection heat maps and charts depicting transmission patterns. We've all seen models prognosticating the spread of the novel coronavirus--most notably the "flatten the curve" graphic that's been widely shared online and on television. The county-level tracker makes it easy to follow COVID-19 cases on a granular level, as does the ability to break down infections per 100,000 people. This county visualization is unique to USA Facts and will be updated with the most recent data as frequently as possible.

CHAPTER 2

AIM AND SCOPE

2.1 AIM

The main objective of this project is to providing up to covid-19 data from around the world. Showing the latest stats and information related to COVID-19.

2.2 PROBLEM STATEMENT

If we want to see the data set of covid -19, it is tough to find the country wise one by one. For the fast going generation, they will not like to go through the data on by one. This pole visualization will make easy by clicking the country.

2.3 SCOPE

Data visualization makes the people to understand and Also makes easier to detect the patterns, trends, and outliers in the group of data. Here, in the dashboard it will pop up the message of cases details by selecting any of the poles. The chosen field will display the daily updates of covid-19

CHAPTER 3

SYSTEM ANALYSIS

3.1 GENERAL

3.1.1 Excel

Microsoft **Excel** also added new charts and graphs, helping you present your data in compelling ways. This function comes with formatting, sparklines, and table options for you and other users to better understand the data you have input. Tidy and customizable interface. We can able to store the contents of covid-19 data from web browser. we can also refresh the data to get the updated result. Here, excel used to gather the data set of covid -19 cases. Data is extracted from the web and stored in excel. And also the data will automatically refresh for every 24 hours when internet is connected.

3.1.2 Tableau Desktop

Tableau Desktop is **data visualization software** that lets you see and understand data in minutes. With other Tableau products, it comprises a complete business intelligence software solution.

3.1.3 USER INTERFACE

The user interface (UI) is the point of human-computer interaction and communication in a device. This can include display screens, keyboards, a mouse and the appearance of a desktop. It is also the way through which a user interacts with an application or a website

3.2 Tools used:

Filters in Tableau Dashboard

In this article, we will show you How to create Filters in Tableau Dashboard with an example. For this Dashboard filters demo, we are going to use the below-shown dashboard.

1. **Data:** This will display the list of currently connected data
2. **Columns or Rows:** This is the region where we place the Measures and Dimensions as per our requirement.
3. **Marks:** Using this section, we can change the color, size, metric value. We can also add the Tooltip for the tableau report.
4. **Filters:** Place a field in this region to filter the Tableau reports.
5. **Pages:** Tableau reports preview will be divided into different pages using the field placed in this Pages Card.

3.3 PROJECT DESCRIPTION

This project is designed to visualize the covid-19 cases of total number of

- New cases
- Death cases

An interactive **COVID-19** visualizer (**coronavirus**) that highlights countries around the world based on the most recent cases. **COVID-19**. Click on a country or territory to see cases, deaths, and recoveries. Legend (active cases) 0. View charts and more data » TOTAL COUNTS (as of)

ACTIVE:

- DEATHS: 0 Deaths out of total cases
- RECOVERIES: 0 Recoveries out of total cases

Basically the world map contains covid-19 data with total number of confirmed cases and death cases. In the tableau software connect excel which contains the covid report data. Confirmed cases include presumptive positive cases. Recovered cases are estimates based on local media reports, and may be substantially lower than the true number.

CHAPTER 4

RESULTS AND DISCUSSION

4.1 SYSTEM REQUIREMENTS

Hardware Requirement

- ▶ Hard disk : 120 GB
- ▶ Monitor : 15' color with vgi card support
- ▶ Ram : Minimum 256 MB
- ▶ Processor : Pentium iv and above (or) equivalent
- ▶ Processor speed : Minimum 500 MHZ

5.CONCLUSION AND FUTURE WORK

5.1 CONCLUSION

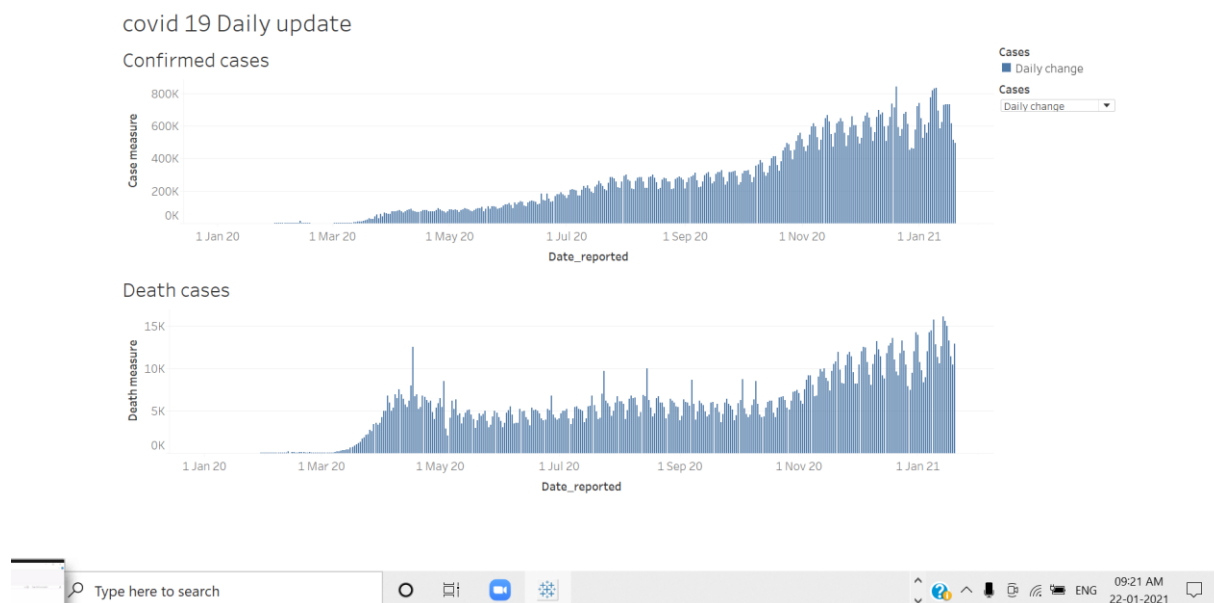
The implementation of above model would help one to see the data in better way and can understand easily. One can know the daily updates by clicking the poles. No need to refer dataset. Readers are likely experiencing some latent anxiety, so do your best to neither make light of the situation nor be alarmist about it. One application of this is in your colour choice: You don't want your map's colour scheme or design to minimize the situation by being overly playful or light hearted. You also don't want to select colours that suggest the worst possible outcome. If a location does not appear in the visualizations , it may be considered a "dependent territory" and its COVID-19 activity has been aggregated

5.2 REFERENCE

1. <https://www.tableau.com/products/destop>
2. <https://www.tableau.public.com>

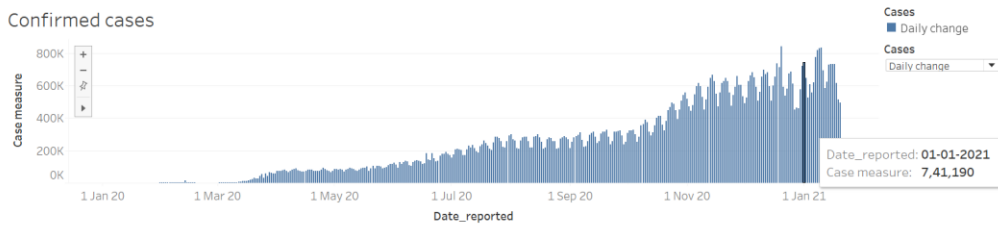
APPENDIX

SCREENSHOTS



covid 19 Daily update

Confirmed cases



Death cases

