

PROJECT SYNOPSIS

TITLE OF THE PROJECT :

COVID -19 Dataset

PROBLEM DEFINITION :

Designing a project to analyse the COVID-19 dataset and calculate various important metrics such as the Death Rate, Recovery Rate, number of vaccinations administered, the top ten and bottom ten affected countries, the overall Death and Recovery Rate, and the number and percentage of individuals affected in specific age groups. The project aims to provide a comprehensive understanding of the current COVID-19 situation and help in better decision making.

PROJECT DETAILS :

This Project is developed by me, and it took me approx 10 days to develop this project, working 1.5 Hours daily. All modules completed by me as per my view and knowledge.

REASON FOR CHOOSING THE TOPIC :

The COVID -19 pandemic has resulted in unprecedented research worldwide. A lot people lost their lives , while many of them recovered. Since the data is so vast and has to be analysed by WHO and keep a track on every single aspect. To create an awareness among the people about COVID -19 situation all around the world and the amount of hard work that all the doctors are doing for our well-being , our team took this challenge and started working with this project to automate their job using Python programming.

OBJECTIVE :

- ✓ *To analyse the COVID - 19 pandemic overall.*
- ✓ *To Calculate the overall Death and Recovery Rate.*
- ✓ *To find number of vaccinations done.*
- ✓ *To find Top 10 and least 10 affected countries.*
- ✓ *To find cases across INDIA.*
- ✓ *To display no. active cases in each continent.*
- ✓ *To display countries having 60% and above recovery rate.*
- ✓ *To show graphically no. and % of people affected in particular age group.*
- ✓ *To show graphically Death Rate vs Recovery Rate.*

HARDWARE REQUIREMENTS :

- ✓ *OPERATING SYSTEM : Windows 7 & Above*
- ✓ *PROCESSOR : Pentium (any) or AMD*
- ✓ *RAM : 4 GB+*
- ✓ *HARD DISK : 500 GB*

SOFTWARE REQUIREMENTS :

- ✓ *Python 3.6.x or higher version*
- ✓ *Pandas Library preinstalled*
- ✓ *Matplotlib Library preinstalled*
- ✓ *Ms-Office installed*

LIMITATIONS :

- ✓ *Data sharing is insufficient.*
- ✓ *Due to privacy issues personal details can't be displayed.*
- ✓ *More functionality can be added as per requirement.*
- ✓ *No provision to print hard copies.*

REFERENCES / BIBLIOGRAPHY :

- ✓ *Source of csv File - www.ourworldindata.org*
- ✓ *For Active Cases Data - www.worldometers.info*
- ✓ *For any online queries - www.google.com*
- ✓ *For Vaccination Data - www.covid19.who.int*
- ✓ *Covid Data Of INDIA - www.mygov.in*
- ✓ *Text book – Class XII - Informatics Practices NCERT*