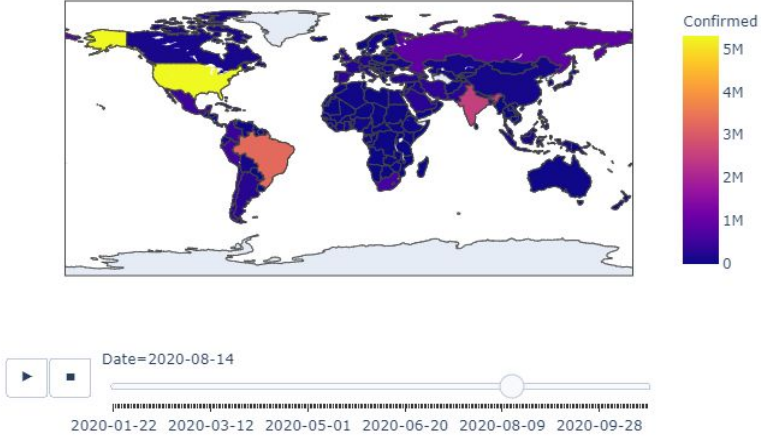
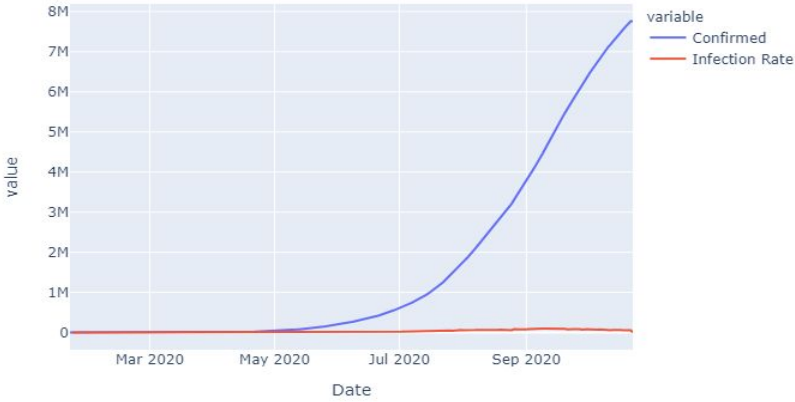
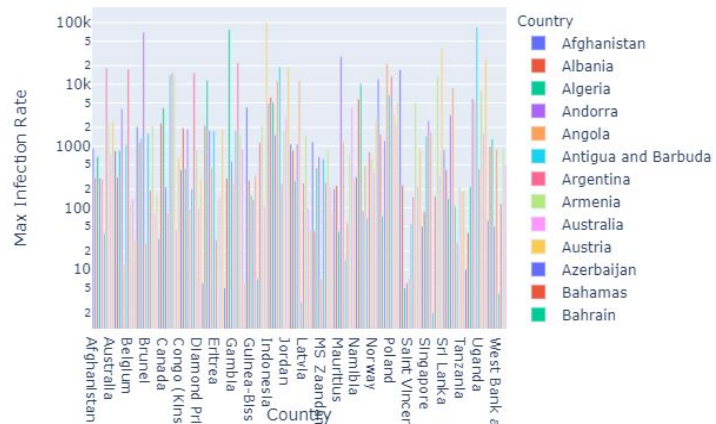


Ideathon Project Report

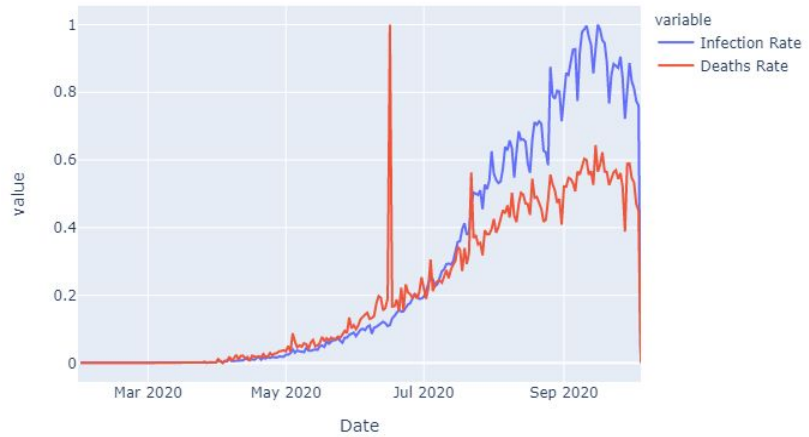
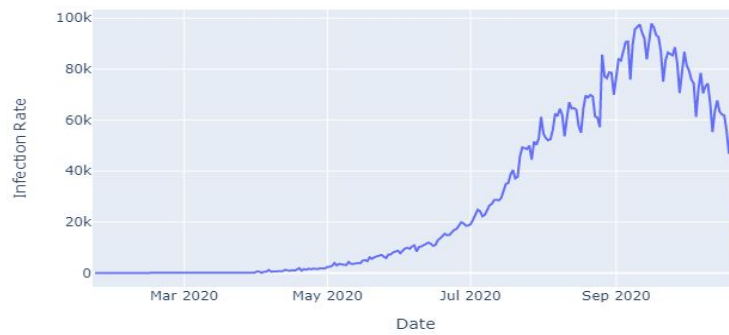
Team Name	Alpha Beta
Team Members	Komal Rane Nitesh Pednekar
Project Topic	Growth Analysis Of Covid19
Project Description	<ul style="list-style-type: none">❖ The project involves analyzing the data of covid-19 using various dataset provided by government authorities and available on open source repositories like GitHub and Kaggle.❖ Live data is monitored and we have developed a model in python to analyze the impact of COVID-19 outbreak across various regions in the country and around the world.❖ Our project involves demonstration and visualization of various factors using charts, tables, graphs, cycles and live maps.❖ Further we have performed extensive data manipulation to understand effects of COVID-19, rising cases across the globe, impact of lockdown across India and other countries, aftermath of lockdown, effect of lockdown and vaccine on Covid-19 cases, etc.❖ We will be using extensive ML techniques along with the support of different libraries to get enhanced and precise outputs.
Project Lifecycle	<pre>graph TD; Explore((Explore)) --> Visualize((Visualize)); Visualize --> Develop[Develop Insights]; Develop --> Act((Act)); Act --> Task((Task)); Task --> Forge[Forge Data]; Forge --> Explore;</pre>

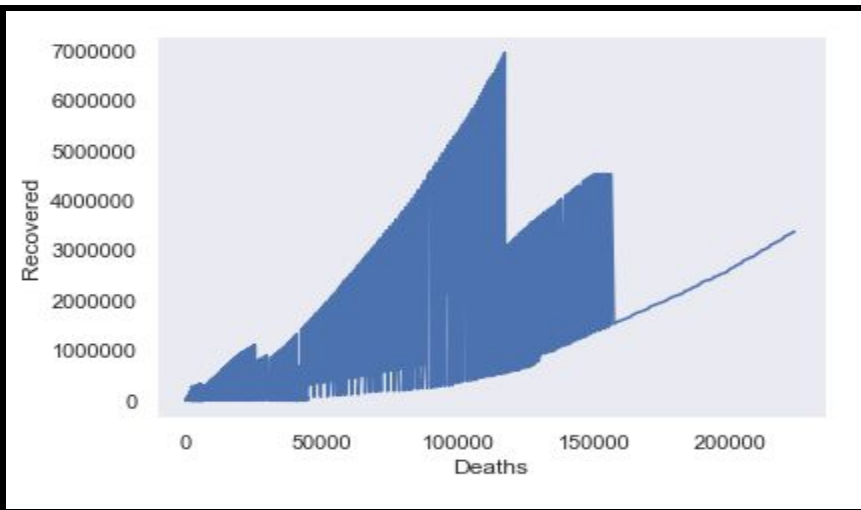
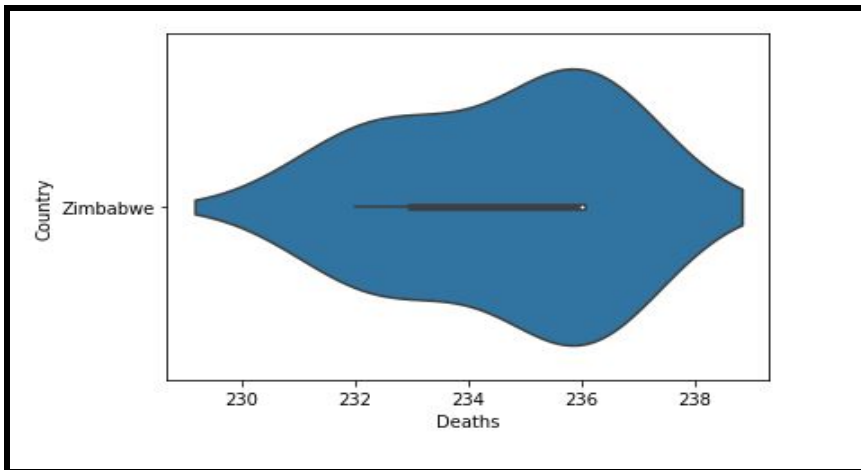
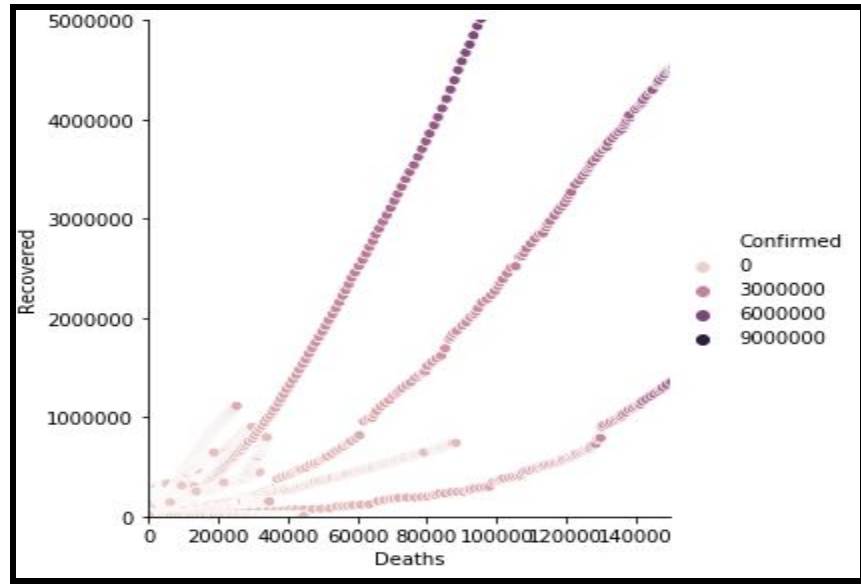
Hardware Used	<ul style="list-style-type: none"> ❖ Modern Operating System: Windows 7 or 10 , Mac OS X 10.11 or higher, 64-bit , Linux: RHEL 6/7, 64-bit (almost all libraries also work in Ubuntu) ❖ x86 64-bit CPU (Intel / AMD architecture) ❖ 4 GB RAM ,5 GB free disk space
Software and Libraries Used	<ul style="list-style-type: none"> ❖ Python 3.7 ❖ Numpy ❖ Pandas ❖ Plotly ❖ Seaborn ❖ Matplotlib
Graphics	<div data-bbox="557 726 1406 1255"> <p>Global Spread Of Covid19</p>  </div> <div data-bbox="557 1306 1406 1816">  </div>

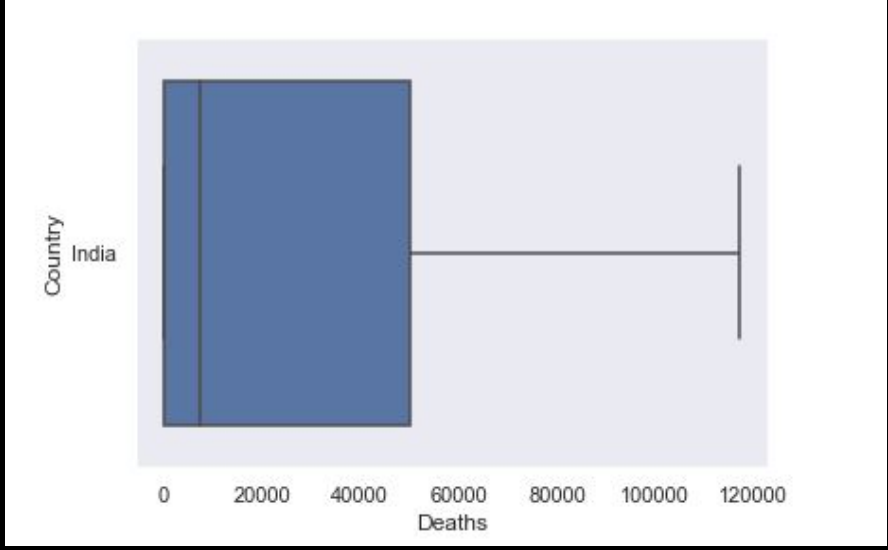
Global Infection Rate



Before And After Lockdown





	
Future Scope	<ul style="list-style-type: none"> ❖ The model can be used to predict the future scope of Covid19 ❖ The analysis can help to study varied patterns of local and global covid spread and transmission. ❖ The estimated time to recover from the pandemic can be predicted using machine learning models ❖ The project can be integrated with other models and used as a analyser to demonstrate the Covid-19 effect and estimated time to develop and deploy the vaccine into the market ❖ It can be beneficial to understand the effects of covid vaccine
Github Repository Link	https://github.com/komal-30/Machine-Learning-Project
References	https://depictdatastudio.com/data-visualization-design-process-step-by-step-guide-for-beginners/ https://www.dashingd3js.com/the-data-visualization-process https://www.forbes.com/sites/bernardmarr/2017/07/20/the-7-best-data-visualization-tools-in-2017/