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Team Name: Hack Covid-19

Theme Name: Software Edition (COVID-19)

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Idea:

The idea is to create a web app using Machine Learning and flask that takes the input of some general symptoms and parameters like cold, age, respiratory condition, fever, oxygen concentration and breath rate and determine whether the symptoms correspond to covid-19 and if they do, then provide the user, the details about the severity and the locations of the areas where it is being cured and the links of protective measures and myth busters provided by WHO. The idea is innovative as it will allow the users to regularly get updated about their health status regarding their symptoms, especially when there is no regular accessibility of Covid-19 hospitals to get their health status based on their symptoms. Moreover, the users will get updated with regular precautions and myth busters provided by WHO through the links available in web app whenever they use the app.

Implementation:

The idea is implemented by extracting the sample dataset of patients and their health status who were the victims of COVID-19. Based on which, a Machine Learning Classification model has been created which will provide user the desired information by learning from the dataset of patients. The model is integrated with a web app to provide a user interface platform. The following important libraries and packages are used for implementing the idea-

Scikit-Learn: For making the classification model and training the model

pandas and numpy: For data cleansing, reading the dataset and creating a data frame of the dataset

flask, Flask-WTF and Flask-SQLAlchemy: For creating the web app

Potential Customers:

All the citizens come under the category potential customers as at this point of time, it has become really necessary to get constant updates regarding one's symptoms and the precautions and myth busters provided by WHO. The users can then take immediate actions based on the updates.