DETECTING NOVEL CORONA VIRUS COVID-19 FOR MEDICAL EMERGENCIES

PROBLEM DESCRIPTION

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From the health ministry affairs, it is very important in finding out the severity of covid-19 cases over the districts of TN State. Many urban and rural districts of TN are affected by this disease and the count is highly alarming, it becomes necessary to group affected districts based on severity level which would go a long way in assisting health organizations to give importance for such places where the spreading of the disease is rapid.

When a patient is looking for a hospital in need of medical emergency, it is often better to locate existing hospitals and find the category of such hospitals. The purpose of this project is to find nearby hospital locations within a minimal radius from the current location in an optimal manner. The proposed project focuses on the districts with dense or less populated districts, finds the nearby hospitals based on Foursquare API. The distance between the current location and the hospital locations are computed. The project suggests most optimal neighborhood hospitals sorted by distance as a result.

Also, this project utilizes clustering algorithm to cluster districts of TN State's pandemic situation by considering fields such as number of active cases, recovered cases and deaths on day-to-day basis using web scrapping of covid-19 data from Wikipedia. From the clustering analysis, the impact of covid-19 spreading over the districts is analyzed.

The major Insights influenced in the problem are,

- Distance to the neighborhood hospitals from the current location
- Suggests the number of prevailing hospitals in the neighborhood areas
- Grouping of similar districts based on covid-19 cases where utmost care has to be taken