## Project Name: Healthcare Project

## Project Scope Definition: Cleaning and Analysing the Census, Ayush Hospitals, insurance corporations, government hospitals, housing data.

## Scope:

## Cleaning the Data:

## Removing unnecessary columns

## Renaming columns

## Making the datasets to have same column names

## Filling missing values by making some meaningful calculations from the datasets

## Making use of one dataset in other datasets to fill null values or making any other changes

## Analysing the Data:

## Visualising the percent of missing values before and after imputing the data

## Checking the household data to calculate the number of households having toilet facilities

## Visualising the number of households for each state

## Identifying the districts with significant variations in rural and urban areas

## Check the areas where the number of hospitals is very less

## Check the number of hospitals having 10000 beds in each state

## Checking the Union Territories having very less beds

## Analysing the count of government hospitals by area and specify areas where new hospital can be built

## Determine the gap between the WHO rule and actual number of hospitals

## Connecting to the Database and Uploading the Data:

## Establishing connection to relational database (SQL)

## Adding all the cleaned datasets into the database

## Making relations with the tables i.e., specifying the foreign keys, primary keys etc

## Verifying:

## Check the connection to the database

## Check the integrity of the tables

## Performing the operations involving foreign keys

## Checking different kinds of joins between the tables to check the integrity

## Querying the Database:

## Writing Queries to check the database is correct

## Using Python to connect with the database and showing the results using Python

## Milestones:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cohort** | **Sl. No** | **Project Task** | **Start** | **End** | **Effort** |  |  |
|  |  |
| FFF22 | 1 | Project Scope Definition | 23-Jun | 23-Jun | 1 day |  |  |
| 2 | Tools basic understanding |  |  |
| 3 | Detailed Project Architecture | 24-Jun | 26-Jun | 3 day |  |  |
| 4 | Building and development |  |  |
| 5 | Testing and Validation |  |  |
| 6 | Improvising code base | 27-Jun | 27-Jun | 1 day |  |  |
| 7 | Documentation and final delivery |  |  |
| 8 | Presentation | 28-Jun | 28-Jun | 1 day |  |  |

## Tools Required:

## Python

## NumPy

## Pandas

## Matplotlib

## Seaborn

## SQL