Hope Artificial Intelligence

Assignment-Regression Algorithm

Download Set: •

Google Drive Link [Click here](#) .

Git Hub Link: https://raw.githubusercontent.com/RamishaRaniK/dataset/main/insurance_pre.csv

Problem Statement or Requirement:

A client's requirement is, he wants to predict the insurance charges based on the several parameters. The Client has provided the dataset of the same.

As a data scientist, you must develop a model which will predict the insurance charges.

1.) Identify your problem statement
to predict the insurance charges based on age,sex,smoker,childern,bmi

2.) Tell basic info about the dataset (Total number of rows, columns) 1338* 6

3.) Mention the pre-processing method if you're doing any (like converting string to number – nominal data) converting sex,smoker string values to number using get dummiies function

4.) Develop a good model with r2_score. You can use any machine learning algorithm; you can create many models. Finally, you have to come up with final model.

5.) All the research values (r2_score of the models) should be documented. (You can make tabulation or screenshot of the results.)

6.) Mention your final model, justify why u have chosen the same.
Random forest is best for this use case as the r2 score is 0.82 that is closer to 1

Kindly create Repository in the name Regression Assignment.

Upload all the ipynb and final document in the pdf

Communication is important (How you are representing the document.)