

# 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](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
- 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) to predict the insurance charges based on age,sex,smoker,children,bmi
- 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. converting sex,smoker string values to number using get dummies function
- 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.

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.)