HLD FOR INSURANCE PREMIUM PREDICTION

Description:

- **This implementation is based on the github repository (https://github.com/KIRTIBAJAJ2002/KIRTIINTERNSHIPPROJECT)**

- **In this project we have used machine learning models like**

1. **LinearRegression()**
2. **Lasso(),**
3. **Ridge(),**
4. **ElasticNet(),**
5. **RandomForestRegressor(),**
6. **GradientBoostingRegressor(),**
7. **DecisionTreeRegressor(),**
8. **SVR(),**
9. **KNeighborsRegressor()**

WHY THESE ML MODELS USED:

1.The reason I took and tested the every other model of machine learning is because,this is my first internship project in which the accuracy of the model is to be selected at its best performance.so we tried and tested each model and found out the solution that which model give the more accurate predictions for the insurance premium prediction given upon its features.

2.the models and Algos used needs to be accurate and not less accuracy score so it is better to use every possiblke model and use this for the insurance premium prediction.

The steps by which this can be done:

1.The data must be understood with its featues that which are dependent and which are independent features.

2.the feature engineering can be the secind step for setting up with the project.

3.After this the data must be preproceesed and EDA needs to be done .in preprocessing and EDA the categorical features needs to be converted into numerical one by using encoding techniques.scaling can be done if the dataset is long and large.

4.the pipeline must be developed

5.the frontend can be developed

6.the model can be deployed in any cloud platform.

The model which given the highest accuracy score:

1.the gradient boosting have given the highest accuracy score and the score ensembles that the model is good for the predicting of insurance premium prediction.