**My latest capstone report**

**1.my problem statement was that people have a hard time viewing their insurance charges so to solve this problem**

**2.the dataset is about the person’s medical insurance info there are 7 categories**

**a. age-the persons age**

**b. sex-the persons gender**

**c. B.M.I-the body mass index**

**d. children-the no. of children covered in insurance**

**e. smoker- if that person smokes**

**f. region- where the person is from**

**g. charges- the amount paid for the insurance and paid using medical insurance**

**3. by using AI I made a code that helps the user when they enter their age, bmi, children, region they will get their charges**

**4. I used the random forest regressor so the bot will predict the charges using 4 different inputs.**

**5. a. I first uploaded the libraries pandas, train test split, LabelEncoder and I uploaded Random Forest Regressor**

**b. next I uploaded the dataset in google colab**

**c. then using pandas I made the bot read through the dataset and display the columns**

**d. next I then made the x and y variable**

**e. then I label encoded any strings in the x or y variables**

**f. later on I called the regressor model using the criterion mse**

**g. then I split the data using train test split**

**h. then I named my random forest regressor model clf and used a random state 0**

**i. next I tested the model**

**j. then I made a code lets the user to enter the BMI age children covered in insurance and the region**

**k. finally this code tells the charges used in insurance using predict.**