**Description of Missing values:**

The Codes is divided into two parts

This first one is for data preprocessing and Explority data analysis:

[src\_Visualization \_Suicides\_Rates-Regression\_chapter3.ipynb](https://github.com/Abrar2020/Udacity-Project4/blob/master/src_Visualization%20_Suicides_Rates-Regression_chapter3.ipynb)

**Reading the row data, I uploaded data in Git-hub :**

**master.csv**

**Countrey-Region.xlsx**

**WDIEXCEL.xlsx (is very common dataset)**

The missing values in row data in two features: HDI and unemployment rates

**The first one by mean of HDI in each country , else by 0**

df['HDI\_for\_year'] = df.HDI\_for\_year.fillna(df.groupby(["country"])["HDI\_for\_year"].transform(np.mean))

**and the second one is**

according the country code fetching unemployment index and imputing in unemployment index

by the mean of the each country

as

df['unemployment index']=df['unemployment index'].fillna(df.merge(df\_tempo,on='country',how='left')['unemployment index\_y'])

**until line 33 is the finish step , there is no missing values**

**then Add more visualization and more relations between features**

**After That , there is use the data after clean and prepared for the XGBR Model**

**Thank you for support and understanding**