

Working with dataset

Preparing the dataset

Date	8/11/2022
Team ID	PNT2022TMID00859
Project Name	Corporate Employee Attrition Analysis

```
[1] #Import Libraries
import numpy as np
import pandas as pd
import seaborn as sns
```

```
[2] #Load the data
from google.colab import files # Use to load data on Google Colab
uploaded = files.upload() # Use to load data on Google Colab
```

Choose Files IBM_HR_Tr... 014-17.csv

- IBM_HR_Training_2014-17.csv(text/csv) - 106679 bytes, last modified: 10/14/2022 - 100% done

Saving IBM_HR_Training_2014-17.csv to IBM_HR_Training_2014-17.csv

```
[4] #Store the data into the df variable
df = pd.read_csv('IBM_HR_Training_2014-17.csv')
df.head(7) #Print the first 7 rows
```

	Year	Organization	Department	Position	Position count	Planned position count	Expense total	Course cost	Course days	Terminations	Internal hires	External hires
0	2014	GO Americas corporate	Human Resources	Vice-President of Human Resources	1.0	1.0	203,072.40	10,500	4.0	0.0	0.0	0.0
1	2014	GO Americas corporate	Human Resources	Human Resources Administrator	1.0	1.0	51,582.74	NaN	NaN	0.0	0.0	0.0
2	2014	GO Americas corporate	Human Resources	Benefit Specialist	2.0	2.0	79,115.38	NaN	NaN	0.0	0.0	0.0
3	2014	GO Americas corporate	Human Resources	Human Resources Clerk	2.0	2.0	65,658.44	NaN	NaN	0.0	0.0	0.0
4	2014	GO Americas corporate	Finance	Controller	1.0	1.0	205,051.67	10,500	4.0	0.0	0.0	0.0
5	2014	GO Americas corporate	Finance	Finance Manager	1.0	1.0	151,033.62	NaN	NaN	0.0	0.0	0.0
6	2014	GO Americas corporate	Finance	Financial Analyst	1.0	1.0	72,348.87	NaN	NaN	0.0	0.0	0.0

```
[5] #Get the number of rows and number of columns in the data
df.shape
```

```
(1856, 12)
```

```
[6] #Count the empty (NaN, NA, na) values in each column
df.isna().sum()
```

```
Year          0
Organization   0
Department     0
Position       0
Position count 24
Planned position count 24
Expense total  56
Course cost    431
Course days    431
Terminations   24
Internal hires  24
External hires  24
dtype: int64
```

```
df.isnull().values.any()
```

```
True
```