**LOGISTIC RIGRESSION**

**Business Problem** = ﻿Prepare a prediction model for probability of extra marital affair.

* **Name of the File: -** Affairs.csv
* **Size of the File: -** 25 KB
* **Data: -** 601 Observation, 18 Variable

**Exploratory data Analysis** =

* **Outliers: -**  outliers are not presents.
* **Missing Value: -** Data don’t have Missing Values
* **Normality: -** Data are not normal
* **Output:** - Continues

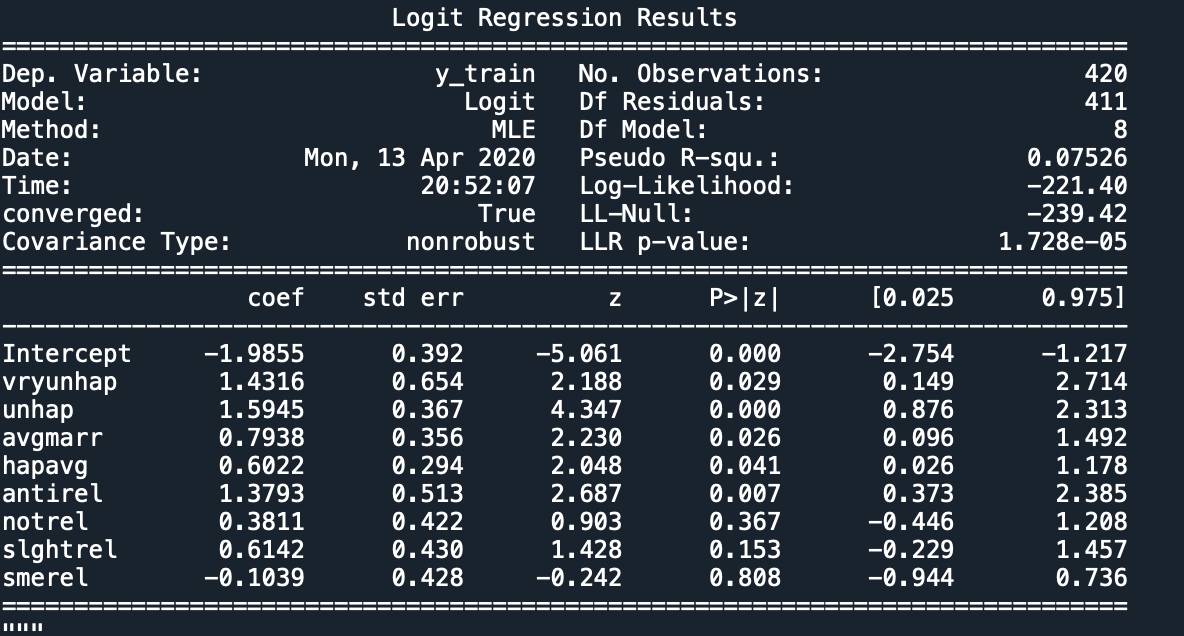
1. **﻿**Converting numerical values of output column into Binary (0 and 1).
2. Measuring Percentage of non-affairs and affairs in output columns

**Affairs** - 25%

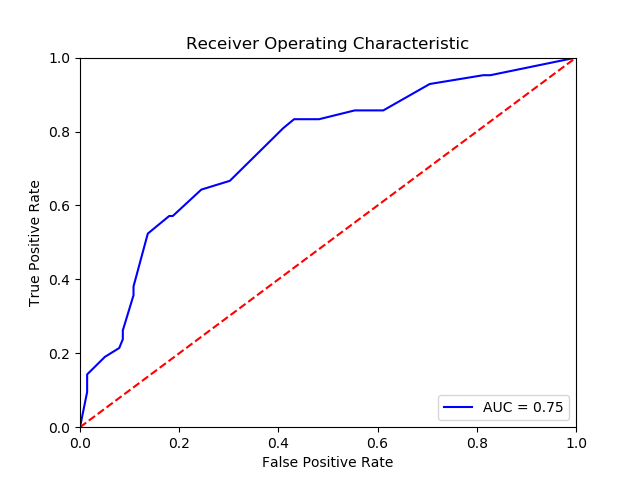
**Non Affairs** – 85 %

**Model Building on Train Data =**

* **Summary: -**

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* **AIC: -** 461
* **﻿Accuracy :-** 79%
* **﻿Sensitivity :-** 98%
* **﻿Specificity: -** 14%
* **No observation: -** 420
* **﻿Df Residuals:** - 411

**Roc Curve**: -

**Roc Curve**: - 75%

**Python code file**: - [Affairs Analysis.py](https://github.com/nilaydeshmukh0/Logistic-Regression-With-EDA/blob/master/Affairs%20Analysis/Affairs%20Analysis.py)