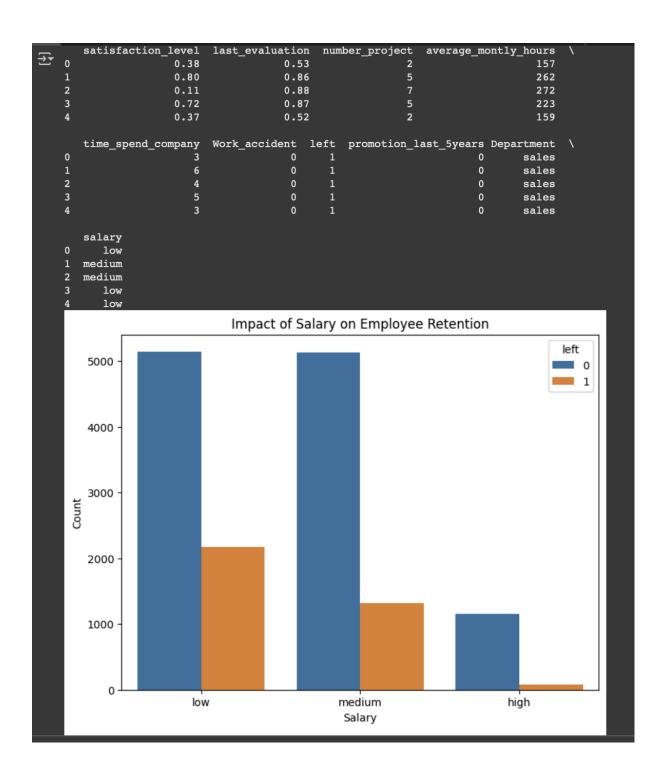
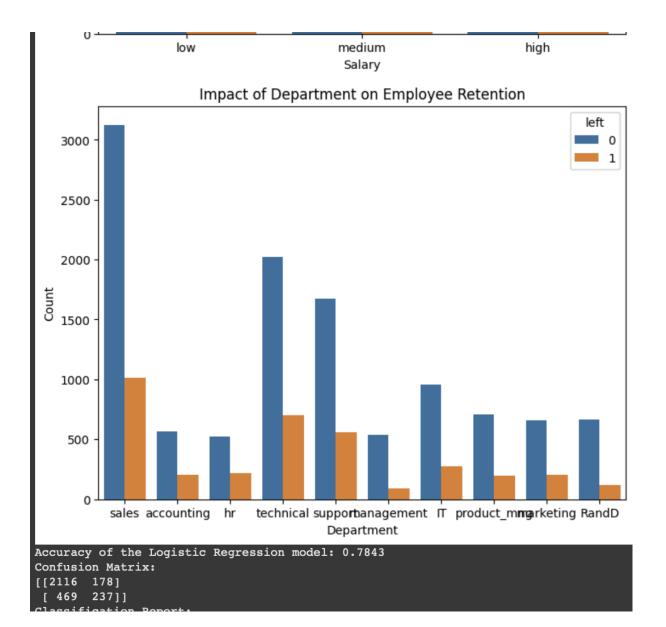
LAB4 MACHINE LEARNING LOGISTIC REGRESSION OUTPUTS

```
\rightarrow satisfaction level
                         0
last_evaluation
                         0
number_project
average_montly_hours
                         0
time spend company
                         0
Work_accident
                         0
left
                         0
promotion_last_5years
                         0
Department
                         0
salary
dtype: int64
       satisfaction level last evaluation number project \
            14999.000000
                              14999.000000
                                            14999.000000
count
                 0.612834
                                 0.716102
                                                 3.803054
mean
std
                 0.248631
                                 0.171169
                                                 1.232592
                 0.090000
                                 0.360000
                                                 2.000000
min
25%
                0.440000
                                 0.560000
                                                 3.000000
                 0.640000
50%
                                 0.720000
                                                 4.000000
75%
                 0.820000
                                 0.870000
                                                 5.000000
max
                 1.000000
                                 1.000000
                                                 7.000000
       average_montly_hours time_spend_company Work_accident
                                                                       left \
            14999.000000
                                 14999.000000
                                                14999.000000 14999.000000
                                      3.498233
                                                     0.144610
                 201.050337
                                                                0.238083
mean
                  49.943099
                                      1.460136
                                                     0.351719
                                                                   0.425924
std
                                      2.000000
                  96.000000
min
                                                     0.000000
                                                                  0.000000
                                     3.000000
25%
                 156.000000
                                                     0.000000
                                                                  0.000000
50%
                 200.000000
                                     3.000000
                                                     0.000000
                                                                  0.000000
                                      4.000000
75%
                                                     0.000000
                 245.000000
                                                                  0.000000
                 310.000000
                                     10.000000
                                                     1.000000
                                                                   1.000000
max
       promotion_last_5years
          14999.000000
count
mean
                    0.021268
                    0.144281
std
min
                    0.000000
25%
                    0.000000
50%
                    0.000000
75%
                    0.000000
                    1.000000
max
satisfaction_level
                        float64
last_evaluation
                         float64
number_project
                          int64
average montly hours
                          int64
time_spend_company
                           int64
Work accident
                           int64
left
                           int64
promotion_last_5years
                          int64
Department
                          object
salary
                          object
dtype: object
```





Accuracy of to	_	Regressio	n model: 0.	7843
[[2116 178]				
[469 237]]				
Classification	n Report:			
	precision	recall	f1-score	support
0	0.82	0.92	0.87	2294
1	0.57	0.34	0.42	706
accuracy			0.78	3000
macro avg	0.69	0.63	0.65	3000
weighted avg	0.76	0.78	0.76	3000

