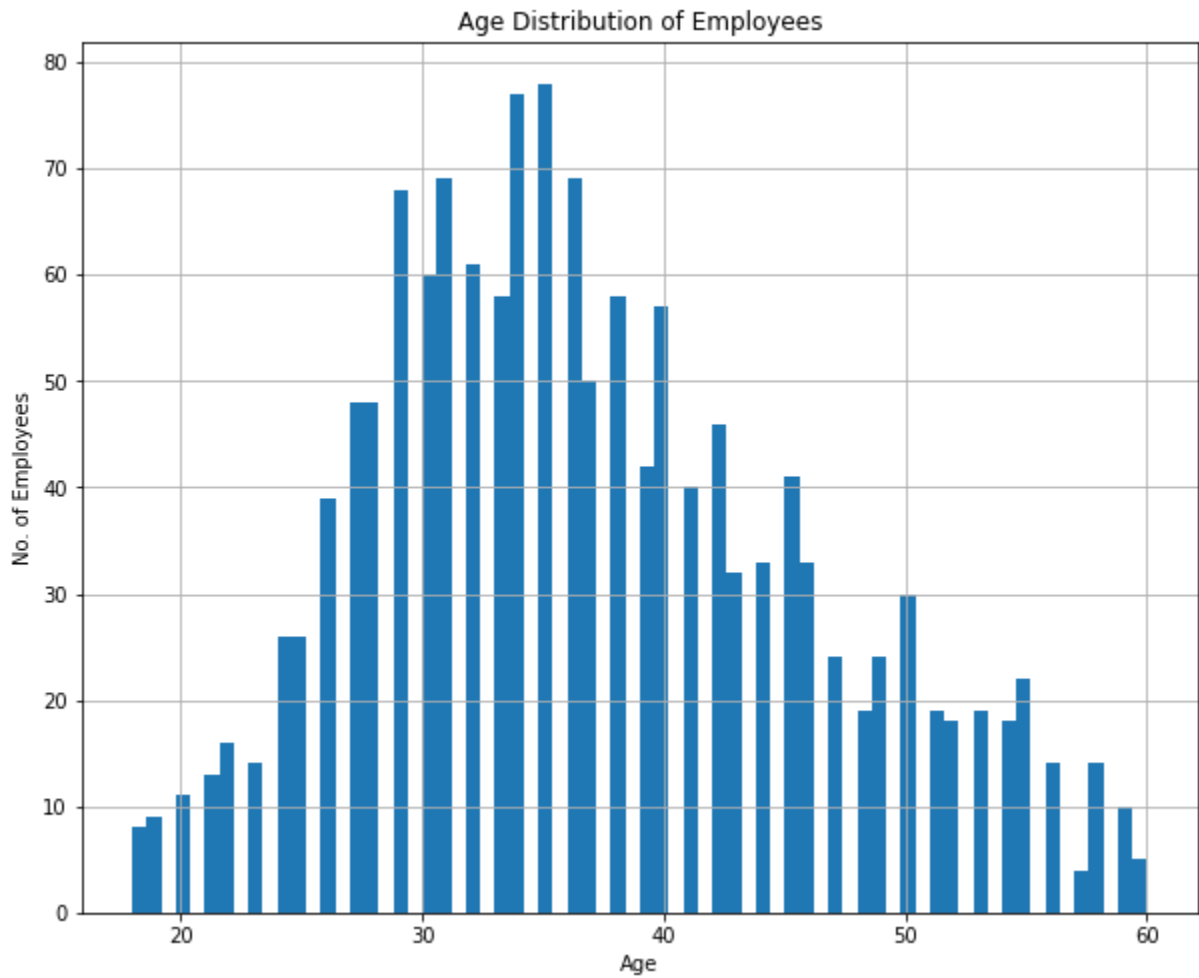
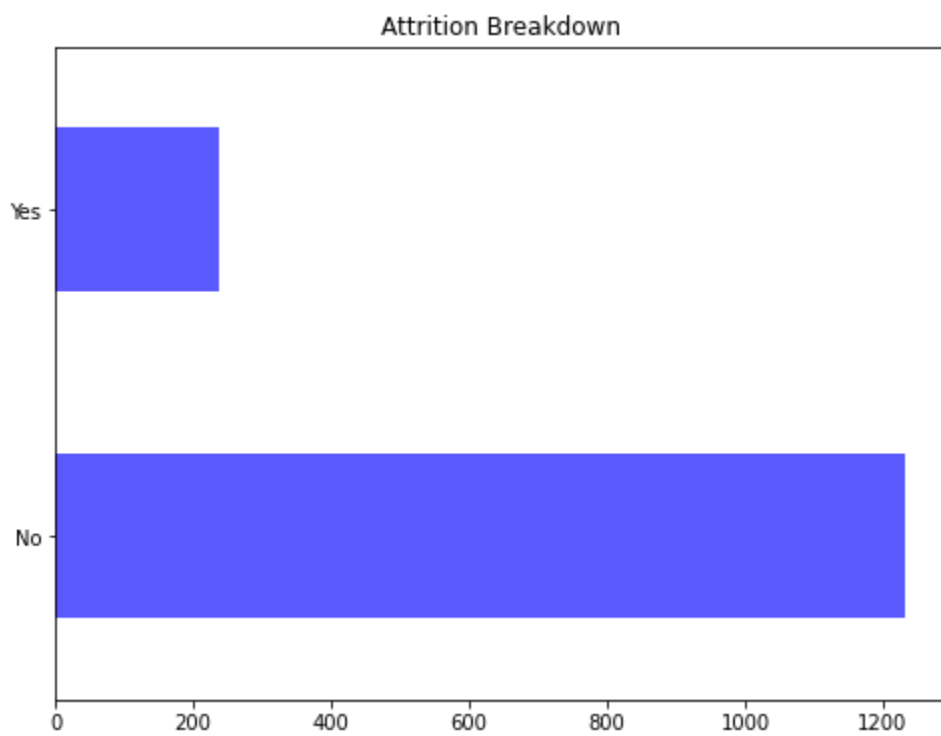


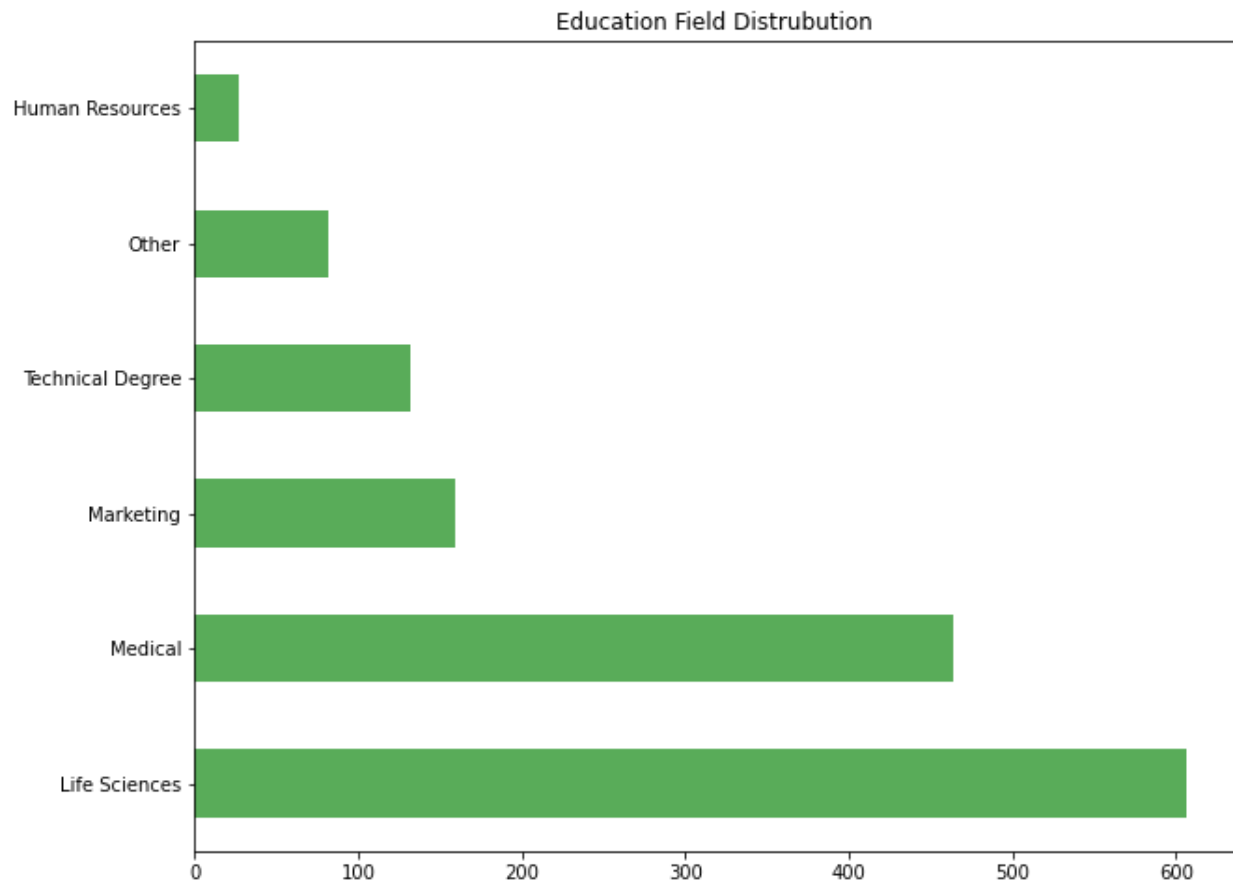
Screenshots

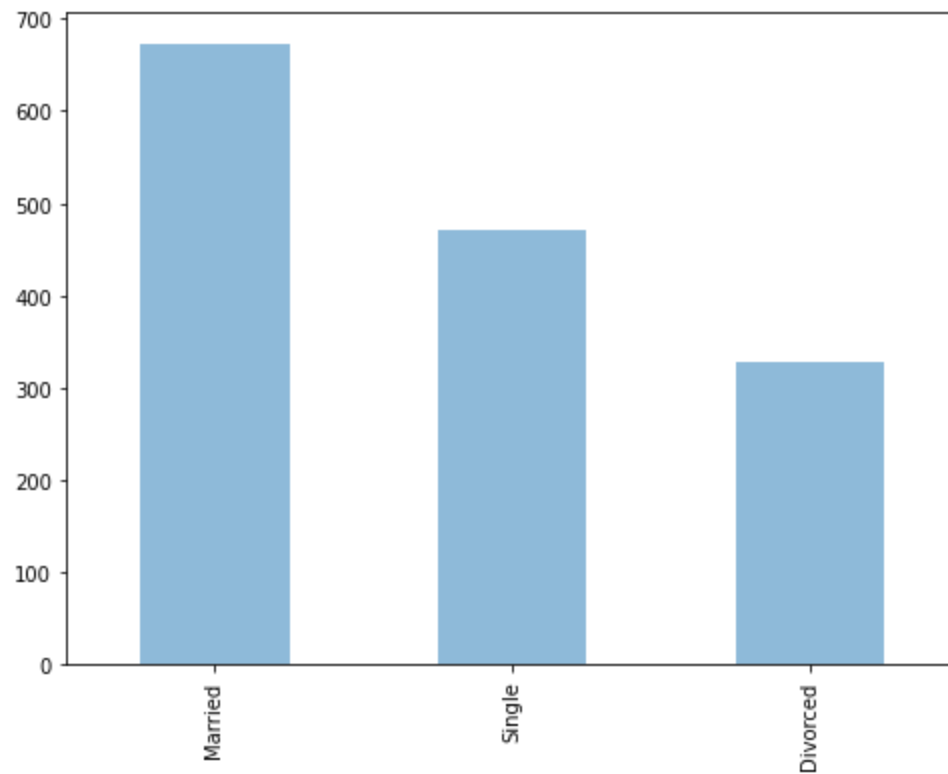
	Age	Attrition	Department	DistanceFromHome	Education	EducationField	EnvironmentSatisfaction	JobSatisfaction	MaritalStatus	MonthlyIncome	NumCompaniesWorked	WorkLifeBalance	YearsAtCompany	
0	41	Yes	Sales		1	2	Life Sciences	2	4	Single	5993	8	1	6
1	49	No	Research & Development		8	1	Life Sciences	3	2	Married	5130	1	3	10
2	37	Yes	Research & Development		2	2	Other	4	3	Single	2090	6	3	0
3	33	No	Research & Development		3	4	Life Sciences	4	3	Married	2909	1	3	8
4	27	No	Research & Development		2	1	Medical	1	2	Married	3468	9	3	2

```
[ 'Age' 'Attrition' 'Department' 'DistanceFromHome' 'Education'
'EducationField' 'EnvironmentSatisfaction' 'JobSatisfaction'
'MaritalStatus' 'MonthlyIncome' 'NumCompaniesWorked' 'WorkLifeBalance'
'YearsAtCompany' ]
```









	Age	DistanceFromHome	Education	EnvironmentSatisfaction	JobSatisfaction	MonthlyIncome	NumCompaniesWorked	WorkLifeBalance	YearsAtCompany
count	1470.000000	1470.000000	1470.000000	1470.000000	1470.000000	1470.000000	1470.000000	1470.000000	1470.000000
mean	36.923810	9.192517	2.912925	2.721769	2.728571	6502.931293	2.693197	2.761224	7.008163
std	9.135373	8.106864	1.024165	1.093082	1.102846	4707.956783	2.498009	0.706476	6.126525
min	18.000000	1.000000	1.000000	1.000000	1.000000	1009.000000	0.000000	1.000000	0.000000
25%	30.000000	2.000000	2.000000	2.000000	2.000000	2911.000000	1.000000	2.000000	3.000000
50%	36.000000	7.000000	3.000000	3.000000	3.000000	4919.000000	2.000000	3.000000	5.000000
75%	43.000000	14.000000	4.000000	4.000000	4.000000	8379.000000	4.000000	3.000000	9.000000
max	60.000000	29.000000	5.000000	4.000000	4.000000	19999.000000	9.000000	4.000000	40.000000

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1470 entries, 0 to 1469
Data columns (total 13 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Age                                    1470 non-null   int64
1   Attrition                            1470 non-null   object
2   Department                            1470 non-null   object
3   DistanceFromHome                     1470 non-null   int64
4   Education                             1470 non-null   int64
5   EducationField                        1470 non-null   object
6   EnvironmentSatisfaction               1470 non-null   int64
7   JobSatisfaction                       1470 non-null   int64
8   MaritalStatus                        1470 non-null   object
9   MonthlyIncome                        1470 non-null   int64
10  NumCompaniesWorked                   1470 non-null   int64
11  WorkLifeBalance                       1470 non-null   int64
12  YearsAtCompany                       1470 non-null   int64
dtypes: int64(9), object(4)
memory usage: 149.4+ KB
```

	Age	Attrition	Department	DistanceFromHome	Education	EducationField	EnvironmentSatisfaction	JobSatisfaction	MaritalStatus	MonthlyIncome	NumCompaniesWorked	WorkLifeBalance	YearsAtCompany
0	41	1	2	1	2	1	2	4	2	5993	8	1	6
1	49	0	1	8	1	1	3	2	1	5130	1	3	10
2	37	1	1	2	2	5	4	3	2	2090	6	3	0
3	33	0	1	3	4	1	4	3	1	2909	1	3	8
4	27	0	1	2	1	2	1	2	1	3468	9	3	2

```
[ ] #Confusion Matrix
print("Confusion Matrix:\n", confusion_matrix(y_test, pred))

Confusion Matrix:
[[371  0]
 [ 70  0]]

[ ] #Classification Report
print("Classification Report:\n", classification_report(y_test, pred))

Classification Report:
              precision    recall  f1-score   support

     0.0         0.84      1.00      0.91         371
     1.0         0.00      0.00      0.00          70

 accuracy          0.42      0.50      0.46         441
 macro avg         0.42      0.50      0.46         441
 weighted avg      0.71      0.84      0.77         441
```