```
import numpy as np
import pandas as pd
df=pd.read_csv("/content/pre-process_datasample.csv")
Country Age Salary Purchased
          France 44.0 72000.0
           Spain 27.0 48000.0
                                    Yes
     2 Germany 30.0 54000.0
                                     No
           Spain 38.0 61000.0
                                     No
     4 Germany 40.0
                         NaN
                                    Yes
          France 35.0 58000.0
                                    Yes
           Spain NaN 52000.0
                                     No
          France 48.0 79000.0
                                    Yes
            NaN 50.0 83000.0
                                     No
          France 37.0 67000.0
                                    Yes
Double-click (or enter) to edit
df.info()
RangeIndex: 10 entries, 0 to 9
    Data columns (total 4 columns):
                   Non-Null Count Dtype
     # Column
     0 Country
                   9 non-null
                                   object
     1
         Age
                    9 non-null
                                   float64
         Salary
                    9 non-null
                                   float64
         Purchased 10 non-null
                                   object
     dtypes: float64(2), object(2)
    memory usage: 448.0+ bytes
df.Country.mode()
        Country
         France
df.Country.mode()[0]
type(df.Country.mode())
      pandas.core.series.Series
      def __init__(data=None, index=None, dtype: Dtype | None=None, name=None, copy: bool | None=None,
      fastpath: bool=False) -> None
          THER IS HOL MORE, THE FESULTING SELECT IS TELLURATED BLUT THE THUCK VOLUES.
      dtype : str, numpy.dtype, or ExtensionDtype, optional
          Data type for the output Series. If not specified, this will be
          inferred from 'data'.
          See the :ref: user guide <basics.dtypes> for more usages.
      name : Hashable, default None
df.Country.fillna(df.Country.mode()[0],inplace=True)
df.Age.fillna(df.Age.median(),inplace=True)
df.Salary.fillna(round(df.Salary.mean()),inplace=True)
df
```



pd.get_dummies(df.Country)



updated_dataset=pd.concat([pd.get_dummies(df.Country),df.iloc[:,[1,2,3]]],axis=1)

updated_dataset.Purchased.replace(['No','Yes'],[0,1],inplace=True)

updated_dataset



df.info()

```
<class 'pandas.core.frame.DataFrame'>
    RangeIndex: 10 entries, 0 to 9
    Data columns (total 4 columns):
     # Column
                   Non-Null Count Dtype
    . . .
        -----
                   ------
     0 Country
                   10 non-null
                                  object
                                  float64
                   10 non-null
         Age
         Salary
                   10 non-null
                                  float64
         Purchased 10 non-null
                                  object
    dtypes: float64(2), object(2)
    memory usage: 448.0+ bytes
```

updated_dataset

| = | France | Germany | Spain | Age | Salary | Purchased |
|----------|--------|---------|-------|------|---------|-----------|
| 0 | True | False | False | 44.0 | 72000.0 | 0 |
| 1 | False | False | True | 27.0 | 48000.0 | 1 |
| 2 | False | True | False | 30.0 | 54000.0 | 0 |
| 3 | False | False | True | 38.0 | 61000.0 | 0 |
| 4 | False | True | Faise | 40.0 | 63778.0 | 1 |
| 5 | True | False | False | 35.0 | 58000.0 | 1 |
| 6 | False | False | True | 38.0 | 52000.0 | 0 |
| 7 | True | False | False | 48.0 | 79000.0 | 1 |
| 8 | True | False | False | 50.0 | 83000.0 | 0 |
| 4 | | Enlan | Enles | 97 A | 67000 O | |

Start coding or generate with AI.