Untitled1

January 3, 2024

#Label and Ordinal Encoding

[1]:
```
import pandas as pd
```

[2]:
```
from sklearn.preprocessing import LabelEncoder
```

[3]:
```
# create a sample dataframe with a categorical value
df = pd.DataFrame({'color':['red','blue','green','green','red','blue']})
```

[4]:
```
df
```

[4]:
```
   color
0    red
1   blue
2  green
3  green
4    red
5   blue
```

[5]:
```
#Create an instance of label encoder
encoder=LabelEncoder()
```

[6]:
```
encoder.fit_transform(df['color'])
```

[6]:
```
array([2, 0, 1, 1, 2, 0])
```

[8]:
```
#ordinal encoding

import pandas as pd
from sklearn.preprocessing import OrdinalEncoder

df=pd.DataFrame({'size':['small','medium','large','medium','small','large']})
```

[10]:
```
# creating instance of ordinal encoder
encoder=OrdinalEncoder(categories=[['small','medium','large']])
```

[12]:
```
encoder.fit_transform(df[['size']])
```

[12]:
```
array([[0.],
       [1.],
       [2.],
       [1.],
       [0.],
       [2.]])
```

[ ]: