Notebook Resources

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- · SAP: 60009200056 (K/K2)

```
import numpy as np
import pandas as pd
import matplotlib as plt

from sklearn import datasets
df=datasets.load_iris()
df
```

Converting 1d target in to 3d array

```
y=pd.get_dummies(df.target).values
y
```

Spliting the dataset into train and test

```
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(df.data, y, test_size=0.2, random_state=42)
```

Weight initialization

```
w = np.random.normal(size=(2,3))
v=np.random.normal(size=(4,2))

def sigmoid(a):
    return 1/(1 + np.exp(-a))

def error(y_train,y_hat):
    temp=(((y_train-y_hat)**2)/len(y_train))
# print(temp)
mse=temp.mean()
# print(mse)
return mse

def accu(y_train,y_hat):
    a=[]
    a=y_train.argmax(axis=1)==y_hat.argmax(axis=1)
# print(a)
    return a.mean()
```

Calculating the zin

```
def forward_pass(X_train,y_train,w,v,accuracy):
    #forward pass
```

#coloulating sin

✓ 1s

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