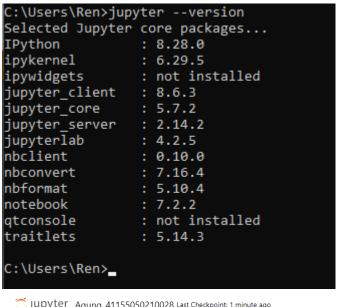
Nama : Agung Purnama Sandi

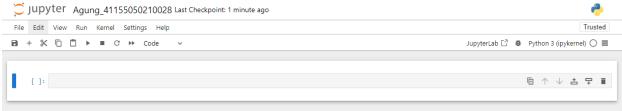
NIM : 41155050210028

Mata Kuliah: Machine Learning

### 1. Instalasi Jupyter Noterbook

### 1.1. Jupyter Notebook





## 1.2. Import Library

```
[6]: import numpy import scipy import pandas import matplotlib import seaborn import sklearn
```

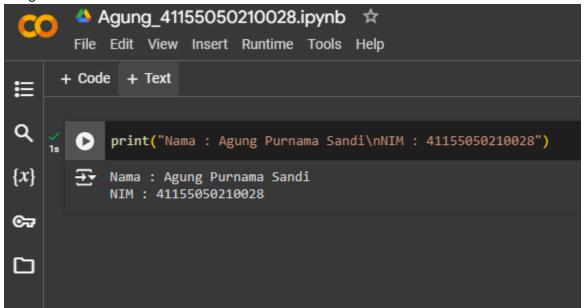
#### 1.3. Nama & NPM

```
import numpy
import scipy
import pandas
import matplotlib
import seaborn
import sklearn

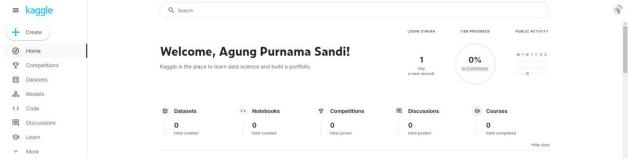
print("Nama : Agung Purnama Sandi\nNIM : 41155050210028")

Nama : Agung Purnama Sandi
IMIM : 41155050210028
```

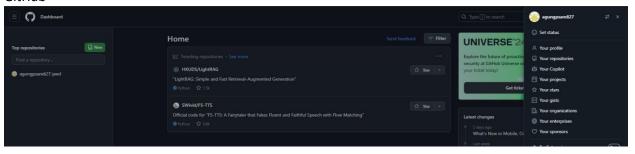
## 2. Google Collab



3. Kaggle



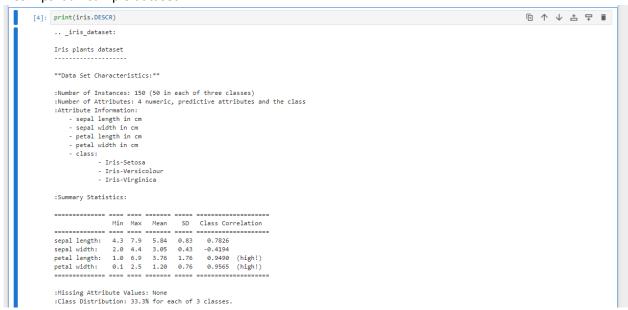
4. GitHub



#### 5. Praktek Sklearn 02

## 5.1. Sample Dataset

#### 5.2. Deskripsi dari sample dataset



#### 5.3. Explanatory & Response Variables | Features & Target

```
[5]: X = iris.data
X.shape

[5]: (150, 4)

[6]: Y = iris.target
Y.shape

[6]: (150,)

[7]: Image: The state of the state
```

### 5.4. Feature & Target Names

### 5.5. Visualisasi Data

## 5.6. Training Set & Testing Set

```
[42]: from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=1)

print(f'X train: {X_train.shape}')

print(f'X test: (X_test.shape)')

print(f'y train: {X_train.shape}')

print(f'y test: (X_test.shape)')

X train: (105, 2)

X test: (45, 2)

y train: (105, 2)

y test: (45, 2)

y test: (45, 2)
```

# 5.7. Load smple dataset sebagai Pandas Data Frame

11.12_16	atures_df				
se	oal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	
0	5.1	3.5	1.4	0.2	
1	4.9	3.0	1.4	0.2	
2	4.7	3.2	1.3	0.2	
3	4.6	3.1	1.5	0.2	
4	5.0	3.6	1.4	0.2	
145	6.7	3.0	5.2	2.3	
146	6.3	2.5	5.0	1.9	
147	6.5	3.0	5.2	2.0	
148	6.2	3.4	5.4	2.3	
149	5.9	3.0	5.1	1.8	

## 6. Prakter Sklearn 03

# 6.1. Training model Machine Learning



# 6.2. Evaluasi model Machine Learning



6.3. Pemanfaatan trained model machine learning

```
| [12]: | data_baru = [[5, 5, 3, 2],[2, 4, 3, 5]] | preds = model.predict(data_baru) | preds | predspecies = [iris.target_names[p] for p in preds] | print(f'Hasil Prediksi: (pred_species)') | Hasil Prediksi: [np.str_('versicolor'), np.str_('virginica')] | [ ]:
```

6.4. Deploy model Machine Learning | Dumping dan Loading model Machine Learning



#### 7. Praktek SKlearn 04

7.1. Persiapan sample dataset

7.2. Teknik data preprocessing 1: binarisasi | binarisation | binarizarion

7.3. Teknik data preprocessing 2: scaling

7.4. Teknik data preprocessing 3: normalisasi | normalisation | normalization