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The screenshot displays a Google Colab notebook interface. The browser tabs at the top include 'OpenAI', 'New chat', 'Course: [2022]', 'Selamat Datang', and several instances of 'DecisionTree.ip'. The notebook's address bar shows a Google Drive link. The notebook title is 'DecisionTree.ipynb' with a star icon. Below the title are tabs for 'File', 'Edit', 'Lihat', 'Sisipkan', 'Runtime', 'Fitur', 'Bantuan', and 'Semua perubahan disimpan'. On the right, there are icons for 'Komentar', 'Bagikan', and a user profile. The main area has a left sidebar with icons for file explorer, search, and runtime. The code editor shows two cells. The first cell contains the following code:

```
[1] from sklearn.tree import DecisionTreeClassifier
from sklearn import datasets
import matplotlib.pyplot as plt
```

The second cell contains the following code:

```
iris = datasets.load_iris()
features = iris['data']
target = iris['target']
print(features)
```

The output of the second cell is a list of 150 data points, each represented as a list of four values: sepal length, sepal width, petal length, and petal width. The output is as follows:

```
[5.8 2.6 4. 1.2]
[5. 2.3 3.3 1. ]
[5.6 2.7 4.2 1.3]
[5.7 3. 4.2 1.2]
[5.7 2.9 4.2 1.3]
[6.2 2.9 4.3 1.3]
[5.1 2.5 3. 1.1]
[5.7 2.8 4.1 1.3]
[6.3 3.3 6. 2.5]
[5.8 2.7 5.1 1.9]
[7.1 3. 5.9 2.1]
[6.3 2.9 5.6 1.8]
[6.5 3. 5.8 2.2]
[7.6 3. 6.6 2.1]
[4.9 2.5 4.5 1.7]
```

At the bottom of the notebook, there is a status bar indicating '0 d selesai pada 15.14'. The bottom of the image shows a Windows taskbar with various application icons, a search bar, and a system clock showing 3:14 PM on 4/13/2023.

Course: [20222] DATA MI x Selamat Datang di Colab x DecisionTree.ipynb - Colab x DecisionTree IrisCSV.ipynb x DecisionTree Iris.ipynb - C x +

colab.research.google.com/drive/19sCrAQlhWMDxlAk7Yd0GagqS18g8Bc#scrollTo=juKF75jqv2ty

DecisionTree.ipynb

File Edit Lihat Sisipkan Runtime Fitur Bantuan Semua perubahan disimpan

Komentar Bagikan

+ Kode + Teks

```
[1] from sklearn import datasets
import matplotlib.pyplot as plt

iris = datasets.load_iris()
features = iris['data']
target = iris['target']
print(features)
len(features)
```

```
[5. 2.3 3.3 1. ]
[5.6 2.7 4.2 1.3]
[5.7 3. 4.2 1.2]
[5.7 2.9 4.2 1.3]
[6.2 2.9 4.3 1.3]
[5.1 2.5 3. 1.1]
[5.7 2.8 4.1 1.3]
[6.3 3.3 6. 2.5]
[5.8 2.7 5.1 1.9]
[7.1 3. 5.9 2.1]
[6.3 2.9 5.6 1.8]
[6.5 3. 5.8 2.2]
[7.6 3. 6.6 2.1]
[4.9 2.5 4.5 1.7]
[7.3 2.9 6.3 1.8]
[6.7 2.5 5.8 1.8]
[7.2 3.6 6.1 2.5]
```

0 d selesai pada 15:15

86°F Mostly cloudy

Course: [20222] DA x Selamat Datang di x DecisionTree.ipynb x DecisionTree IrisCSV x DecisionTree Iris.ip x Course: [20222] ME x +

colab.research.google.com/drive/19sCrAQlhWMDxlAk7Yd0GagqS18g8Bc#scrollTo=qNFs5HjGtP3

DecisionTree.ipynb

File Edit Lihat Sisipkan Runtime Fitur Bantuan Semua perubahan disimpan

Komentar Bagikan

+ Kode + Teks

```
[5] decisiontree = DecisionTreeClassifier(random_state=0, max_depth=None,
min_samples_split=2, min_samples_leaf=1,
min_weight_fraction_leaf=0,
max_leaf_nodes=None,
min_impurity_decrease=0)
```

```
[6] model = decisiontree.fit(features, target)
```

```
[7] observation = [[5, 4, 3, 2]]
model.predict(observation)
model.predict_proba(observation)
```

```
array([[0., 1., 0.]])
```

```
from sklearn.utils.multiclass import class_distribution
import pydotplus
from sklearn import tree
dot_data = tree.export_graphviz(decisiontree, out_file=None,
feature_names=iris['feature_names'],
class_names=iris['target_names'])
from IPython.display import Image
graph = pydotplus.graph_from_dot_data(dot_data)
```

1 d selesai pada 15:33

