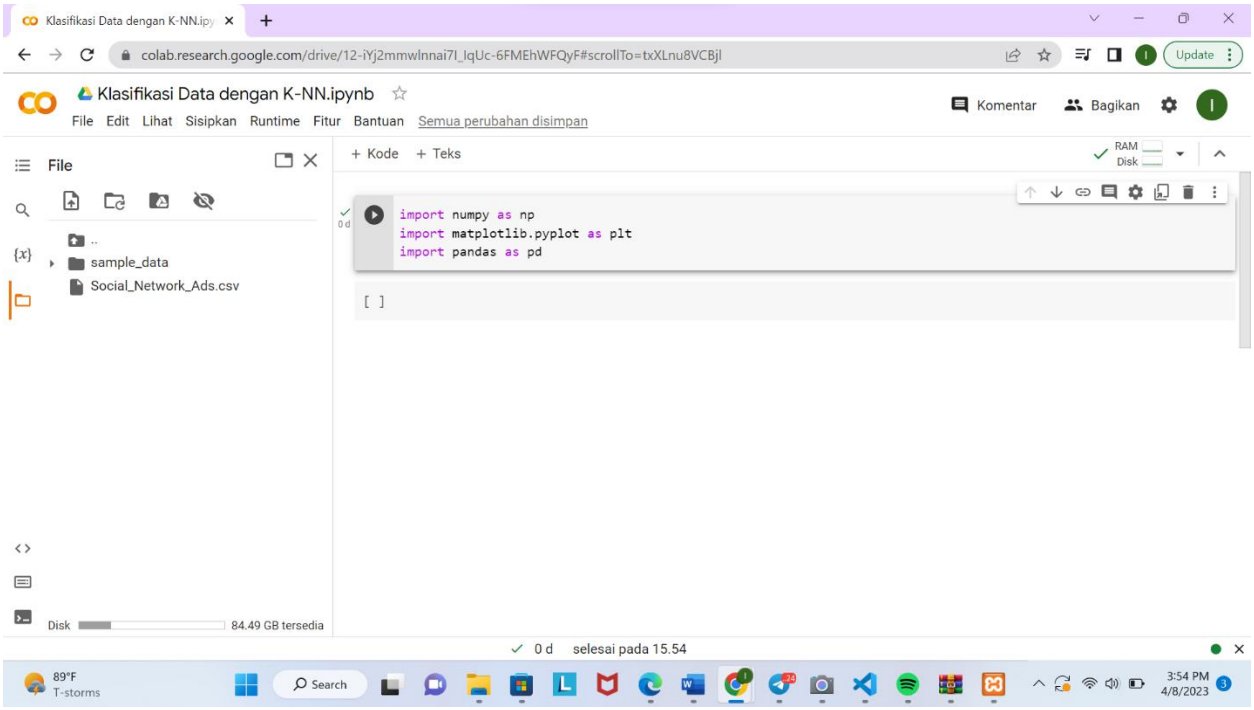
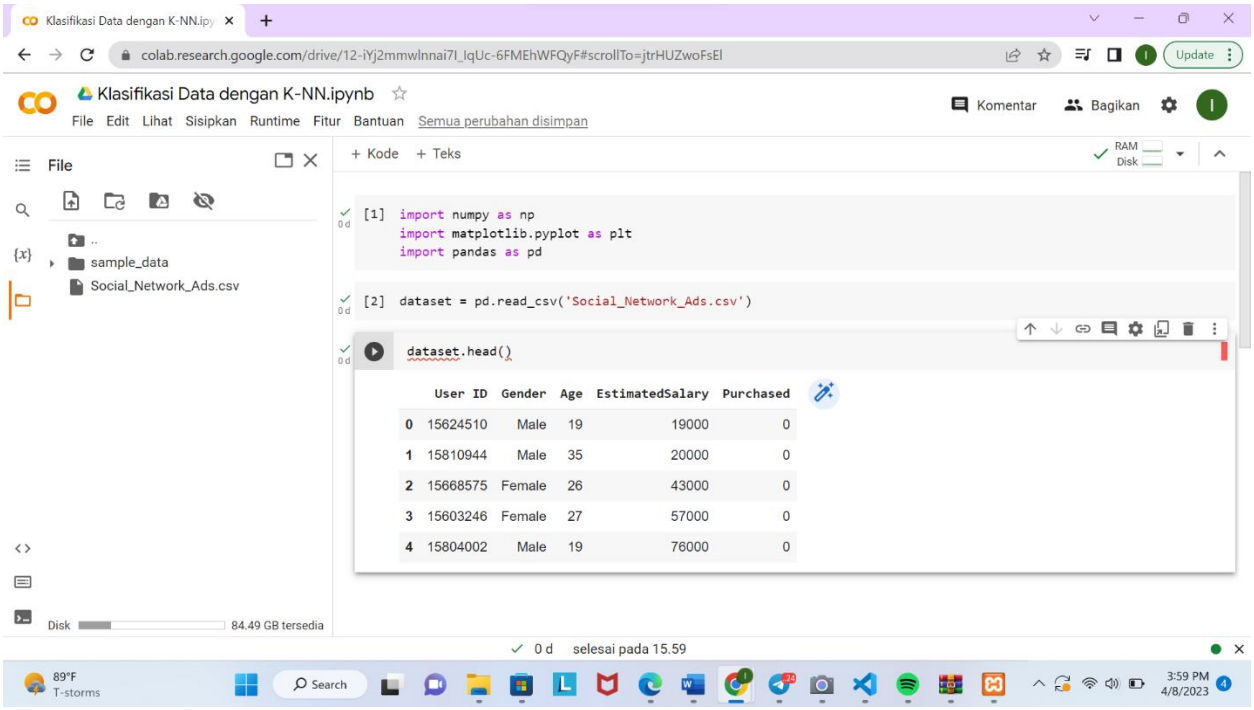
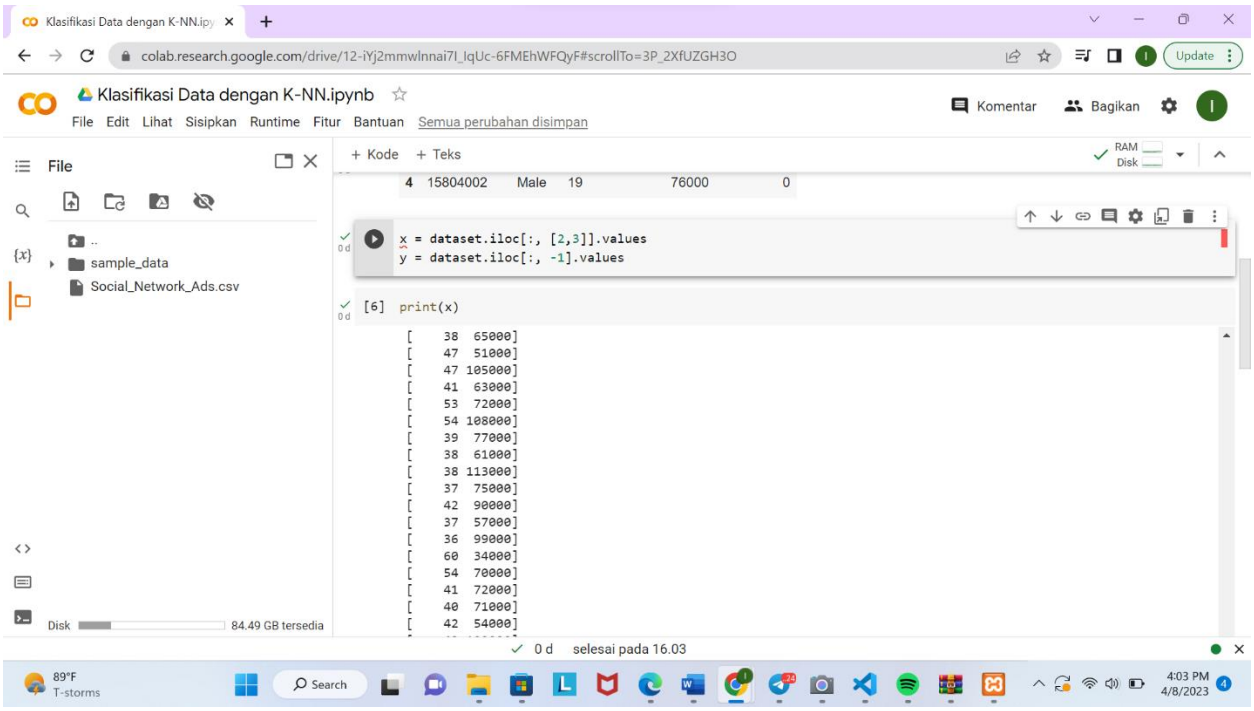
Nama : Iqlima Syahwa

Nim : A11.2020.12799






Klasifikasi Data dengan K-NN.ipynb
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Klasifikasi Data dengan K-NN.ipynb
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x = dataset.iloc[:, [2,3]].values
y = dataset.iloc[:, -1].values
[6] print(x)
[38 65000]
[47 51000]
[47 105000]
[41 63000]
[53 72000]
[54 108000]
[39 77000]
[38 61000]
[38 113000]
[37 75000]
[42 90000]
[37 57000]
[36 99000]
[60 34000]
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[41 72000]
[40 71000]
[42 54000]
sample_data
Social_Network_Ads.csv
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T-storms
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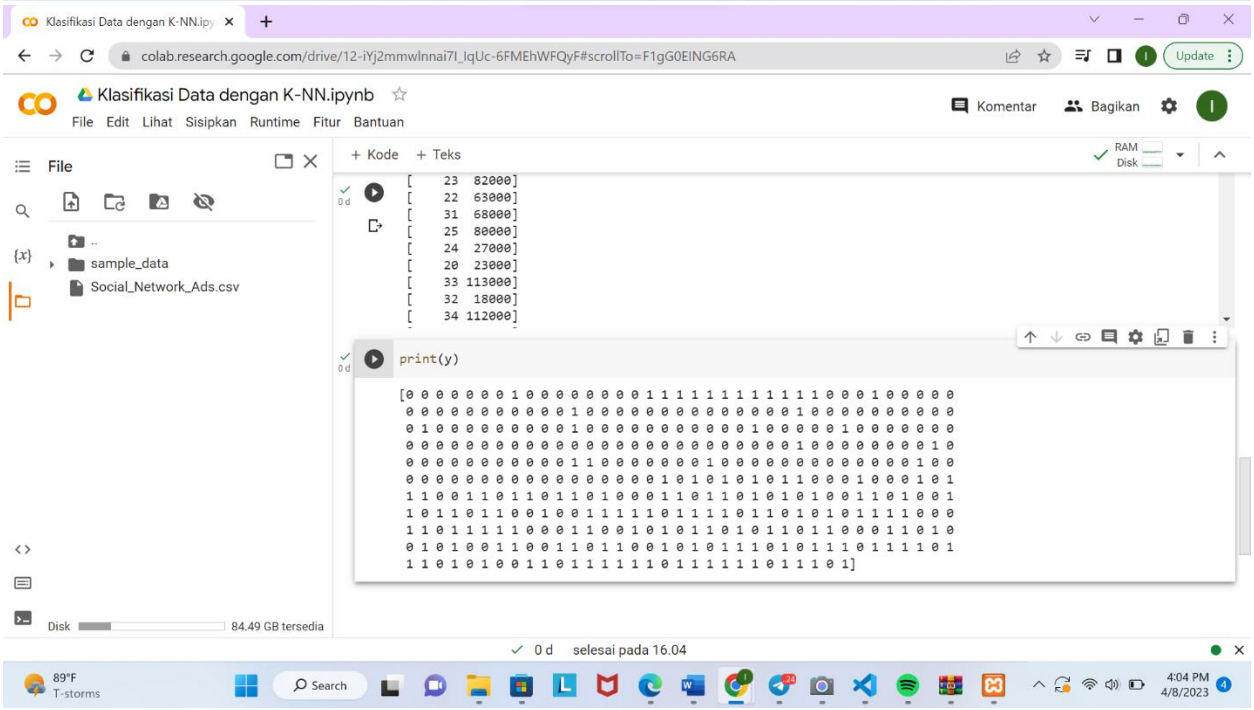
Klasifikasi Data dengan K-NN.ipynb
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[24 27000]
[20 23000]
[33 113000]
[32 18000]
[34 112000]
print(y)
[0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
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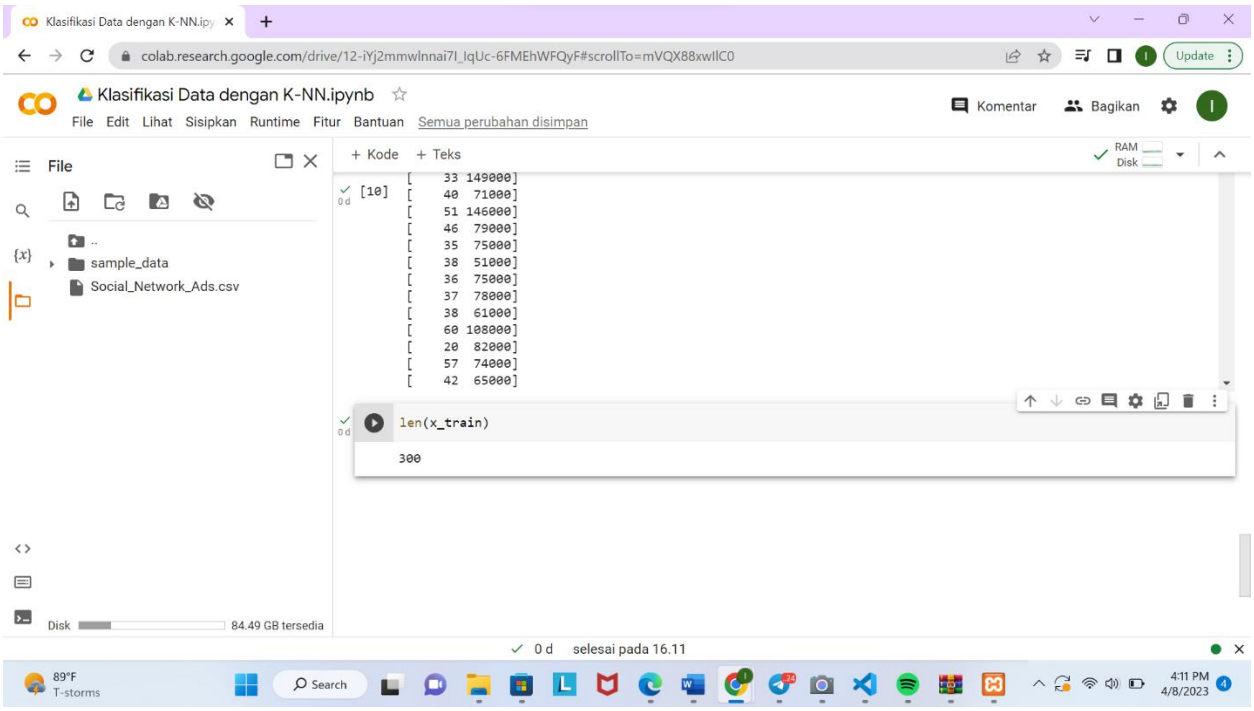
Klasifikasi Data dengan K-NN.ipy
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Klasifikasi Data dengan K-NN.ipynb
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[46 79000]
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[36 75000]
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[38 61000]
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[20 82000]
[57 74000]
[42 65000]
..
sample_data
Social_Network_Ads.csv
len(x_train)
300
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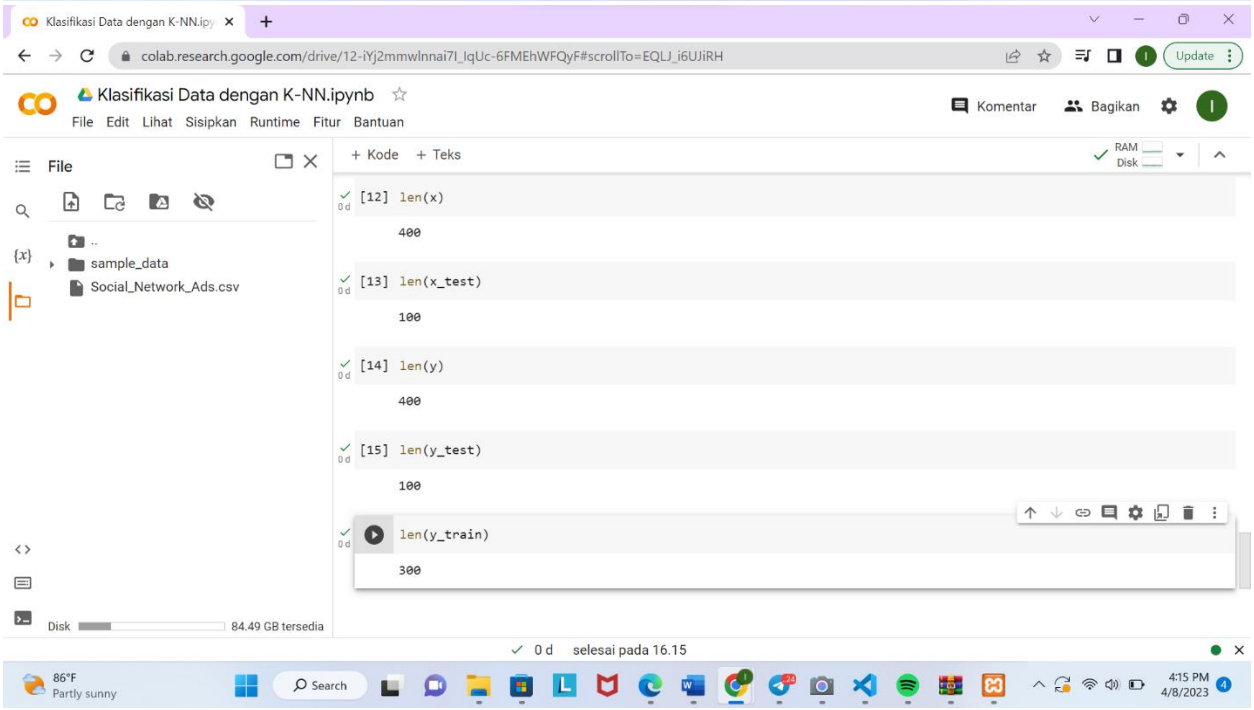
Klasifikasi Data dengan K-NN.ipy
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Klasifikasi Data dengan K-NN.ipynb
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[12] len(x)
400
[13] len(x_test)
100
[14] len(y)
400
[15] len(y_test)
100
len(y_train)
300
..
sample_data
Social_Network_Ads.csv
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84.49 GB tersedia
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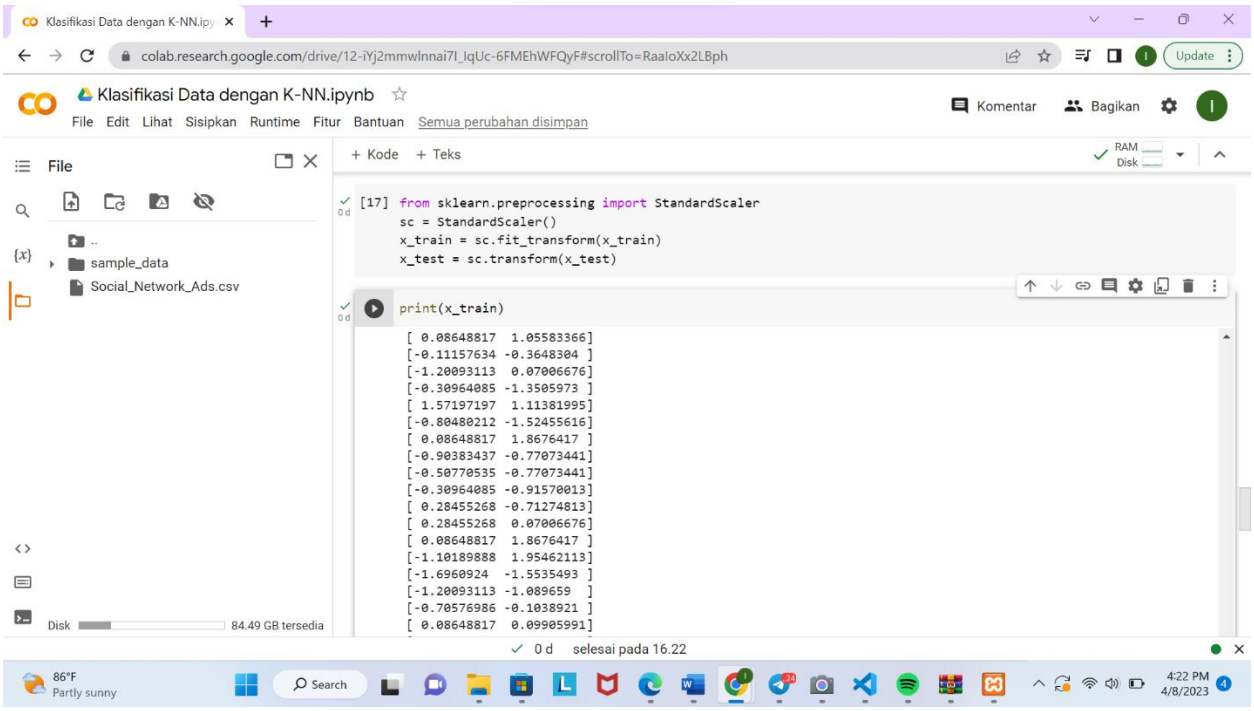
Klasifikasi Data dengan K-NN.ipy
colab.research.google.com/drive/12-iYj2mmwlnnai7I_IqUc-6FMEhWFQyF#scrollTo=RaaIoXx2LBph
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Klasifikasi Data dengan K-NN.ipynb
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[17] from sklearn.preprocessing import StandardScaler
sc = StandardScaler()
x_train = sc.fit_transform(x_train)
x_test = sc.transform(x_test)
print(x_train)
[0.08648817 1.05583366]
[-0.11157634 -0.3648304]
[-1.20093113 0.07006676]
[-0.30964085 -1.3505973]
[1.57197197 1.11381995]
[-0.80480212 -1.52455616]
[0.08648817 1.8676417]
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[-0.30964085 -0.91570013]
[0.28455268 -0.71274813]
[0.28455268 0.07006676]
[0.08648817 1.8676417]
[-1.10189888 1.95462113]
[-1.6960924 -1.5535493]
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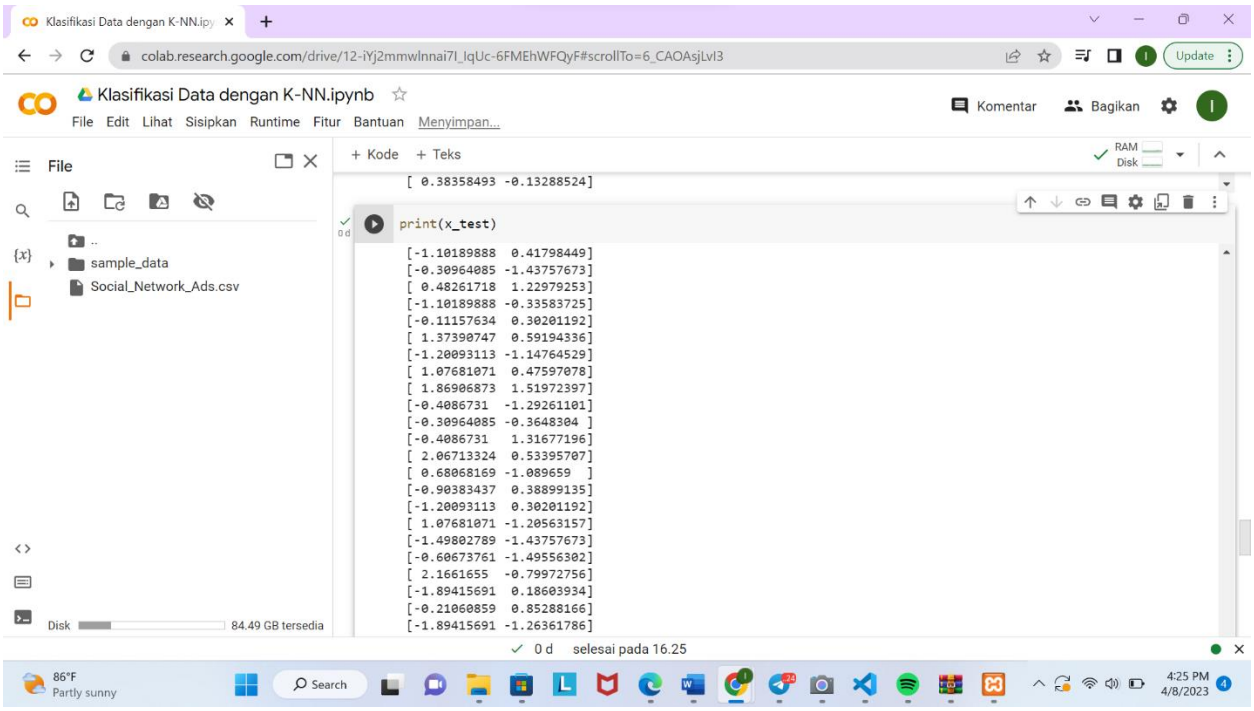
Klasifikasi Data dengan K-NN.ipy
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Klasifikasi Data dengan K-NN.ipynb
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[0.38358493 -0.13288524]
print(x_test)
[-1.10189888 0.41798449]
[-0.30964085 -1.43757673]
[0.48261718 1.22979253]
[-1.10189888 -0.33583725]
[-0.11157634 0.30201192]
[1.37390747 0.59194336]
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[1.07681071 0.47597078]
[1.86906873 1.51972397]
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[-0.4086731 1.31677196]
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[-0.60673761 -1.49556302]
[2.1661655 -0.79972756]
[-1.89415691 0.18603934]
[-0.21060859 0.85288166]
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sample_data
Social_Network_Ads.csv
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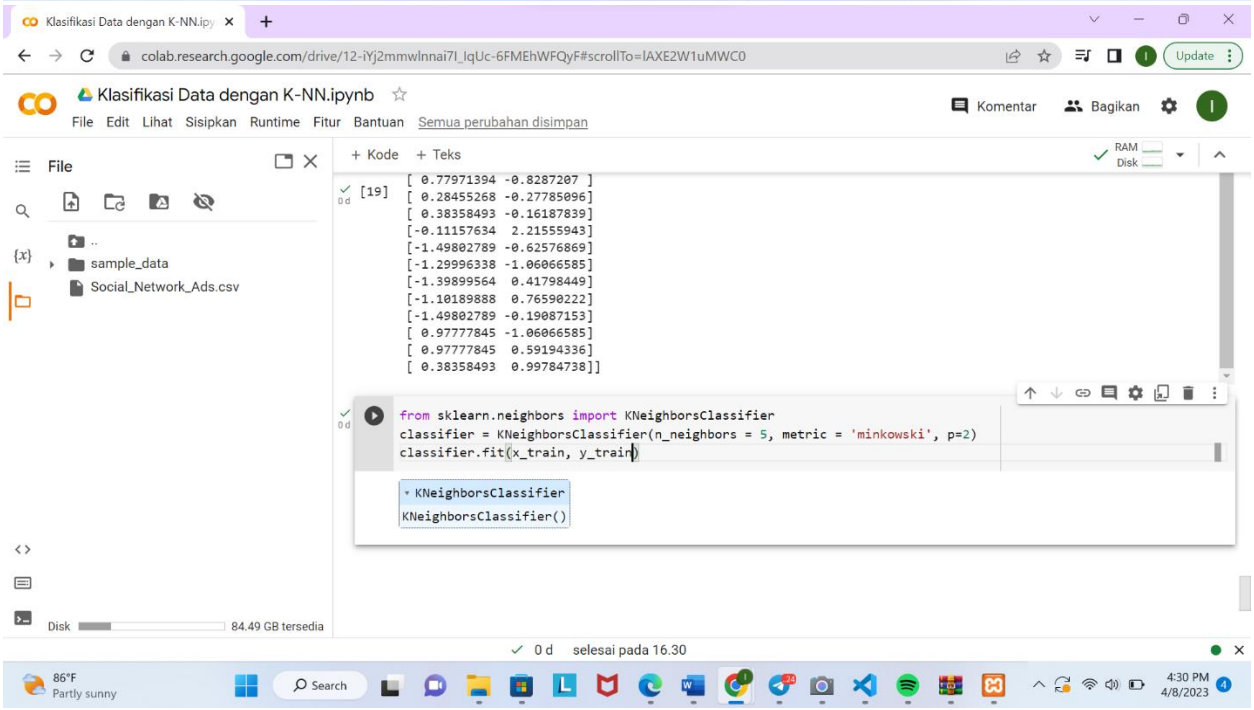
Klasifikasi Data dengan K-NN.ipy
colab.research.google.com/drive/12-iYj2mmwlnnai7I_IqUc-6FMEhWFQyF#scrollTo=IAXE2W1uMWC0
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Klasifikasi Data dengan K-NN.ipynb
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[19]
[0.77971394 -0.8287207]
[0.28455268 -0.27785096]
[0.38358493 -0.16187839]
[-0.11157634 2.21555943]
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[-1.29996338 -1.06066585]
[-1.39899564 0.41798449]
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[-1.49802789 -0.19087153]
[0.97777845 -1.06066585]
[0.97777845 0.59194336]
[0.38358493 0.99784738]]
from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier(n_neighbors = 5, metric = 'minkowski', p=2)
classifier.fit(x_train, y_train)
KNeighborsClassifier
KNeighborsClassifier()
sample_data
Social_Network_Ads.csv
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84.49 GB tersedia
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Partly sunny
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4:30 PM
4/8/2023

Klasifikasi Data dengan K-NN.ipy | Selamat Datang di Colaboratory | Klasifikasi Data dengan K-NN.ipy

colab.research.google.com/drive/1wVl0U6XLcTXrxXm2H_LpEeeH7WLA0Acb#scrollTo=2Xr4xdJ7KfaS

Update

Klasifikasi Data dengan K-NN.ipynb

File Edit Lihat Sisipkan Runtime Fitur Bantuan

Komentar Bagikan

+ Kode + Teks

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sample_data
Social_Network_Ads.csv

Disk 84.49 GB tersedia

```
from matplotlib.colors import ListedColormap
x_set, y_set  =  x_train, y_train
x1, x2 = np.meshgrid(np.arange(start=x_set[:, 0].min()-1, stop=x_set[:, 0].max()+1, step=0.01),
                     np.arange(start=x_set[:, 1].min()-1, stop=x_set[:, 1].max()+1, step=0.01))
plt.contourf(x1, x2, classifier.predict(np.array([x1.ravel(), x2.ravel()]).T).reshape(x1.shape),
             alpha = 0.75, cmap = ListedColormap(('red', 'green')))
plt.xlim(x1.min(), x1.max())
plt.ylim(x2.min(), x2.max())
for i, j in enumerate (np.unique(y_set)):
  plt.scatter(x_set[y_set == j, 0], x_set[y_set == j, 1],
              c = ListedColormap(('red', 'green'))(i), label = j)
plt.title('Klasifikasi Data dengan K-NN (Data Training)')
plt.xlabel('Umur')
plt.ylabel('Estimasi Gaji')
plt.legend()
plt.show
```

```
<ipython-input-23-3d40f6b13854>:10: UserWarning: *c* argument looks like a single numeric RGB or RGBA sequence,
  plt.scatter(x_set[y_set == j, 0], x_set[y_set == j, 1],
<function matplotlib.pyplot.show(close=None, block=None)>
```

11 d selesai pada 21.02

81°F Mostly cloudy

Search

9:02 PM 4/8/2023

Klasifikasi Data dengan K-NN.ipy | Selamat Datang di Colaboratory | Klasifikasi Data dengan K-NN.ipy

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Update

Klasifikasi Data dengan K-NN.ipynb

File Edit Lihat Sisipkan Runtime Fitur Bantuan Semua perubahan disimpan

Komentar Bagikan

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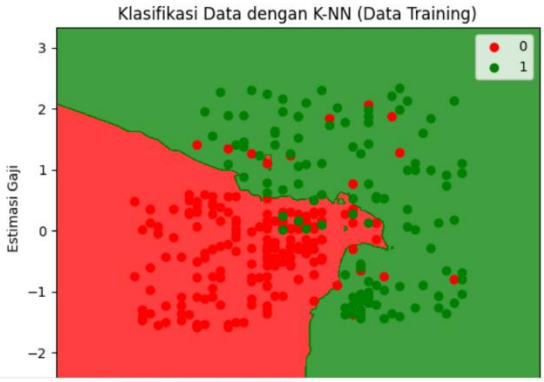
<ipython-input-23-3d40f6b13854>:10: UserWarning: *c* argument looks like a single numeric RGB or RGBA sequence,
  plt.scatter(x_set[y_set == j, 0], x_set[y_set == j, 1],
<function matplotlib.pyplot.show(close=None, block=None)>
```



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Search

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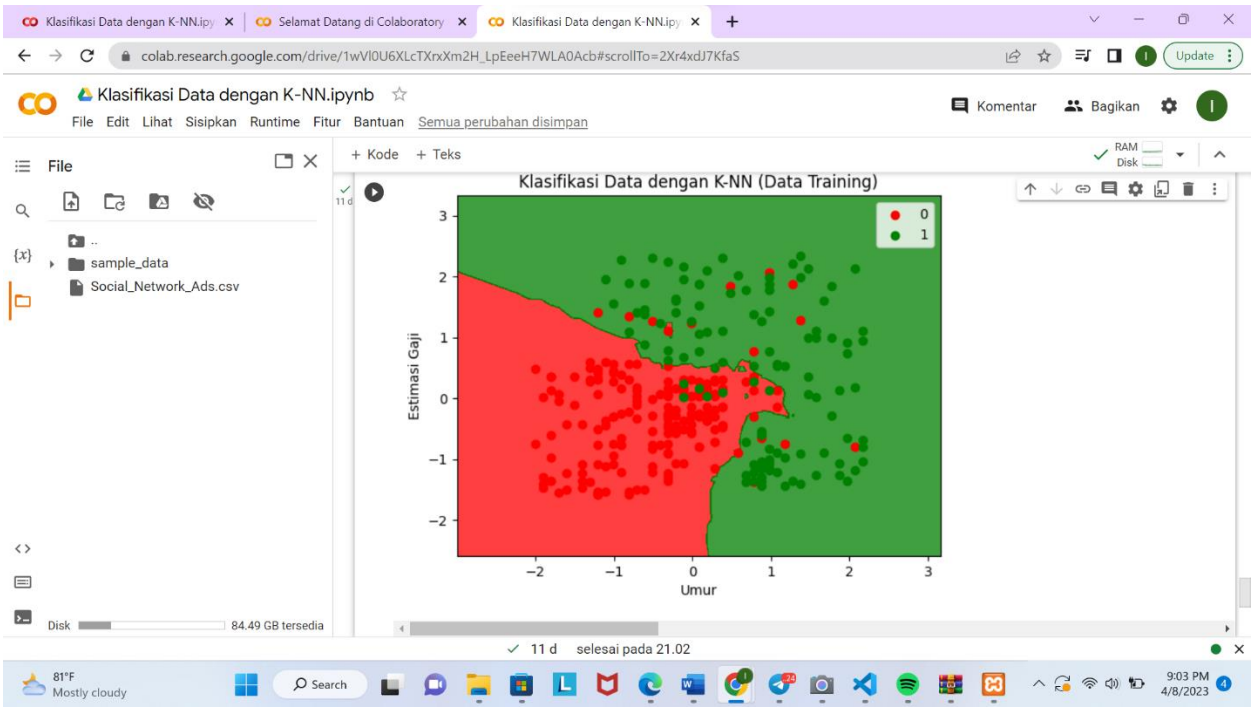
Klasifikasi Data dengan K-NN.ipynb
Selamat Datang di Colaboratory
Klasifikasi Data dengan K-NN.ipynb
colab.research.google.com/drive/1wVl0U6XLcTXrxXm2H_LpEeeH7WLA0Acb#scrollTo=2Xr4xdJ7KfaS
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Klasifikasi Data dengan K-NN.ipynb
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Klasifikasi Data dengan K-NN (Data Training)
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