

```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
from sklearn.cluster import AgglomerativeClustering
import scipy.cluster.hierarchy as sch
```

```
from google.colab import drive
```

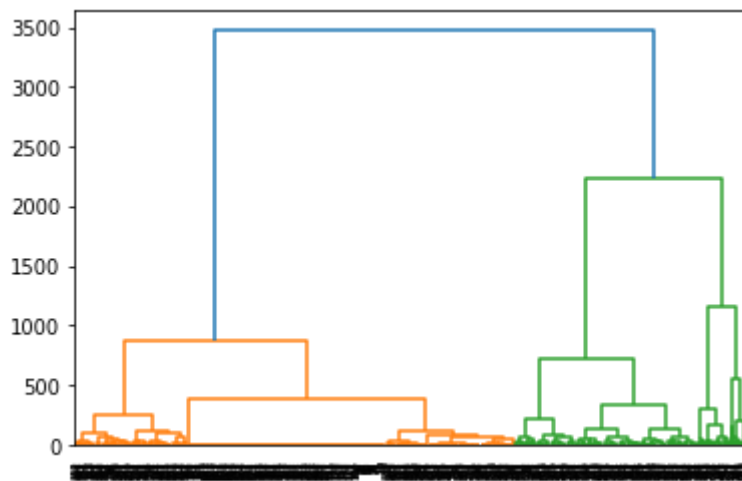
```
drive.mount('/content/drive')
```

Mounted at /content/drive

```
dataset = pd.read_csv('/content/drive/MyDrive/data/diabe
```

```
X = dataset.iloc[:, [3, 4]].values
```

```
dendrogram = sch.dendrogram(sch.linkage(X, method='ward'
```



```
model = AgglomerativeClustering(n_clusters=5, affinity='
model.fit(X)
labels = model.labels_
```

```
plt.scatter(X[labels==0, 0], X[labels==0, 1], s=50, mark
plt.scatter(X[labels==1, 0], X[labels==1, 1], s=50, mark
plt.scatter(X[labels==2, 0], X[labels==2, 1], s=50, mark
plt.scatter(X[labels==3, 0], X[labels==3, 1], s=50, mark
plt.scatter(X[labels==4, 0], X[labels==4, 1], s=50, mark
plt.show()
```

diabetes.csv ×

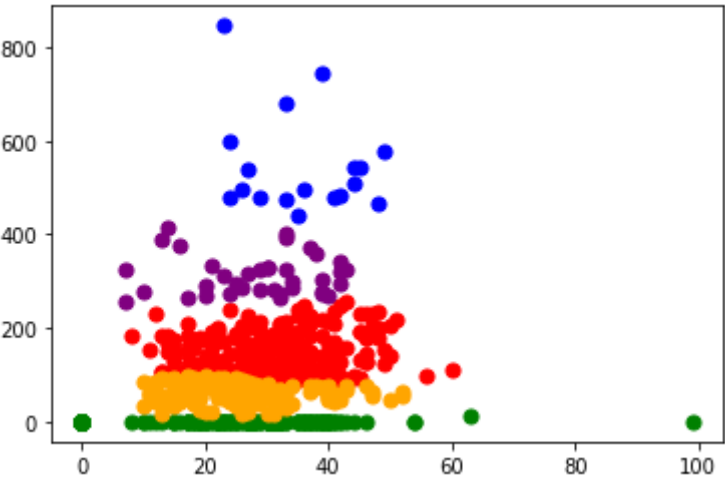
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1 to 50 of 768 entries

Filter



Pregnancies	Glucose	BloodPressur
6	148	72
1	85	66
8	183	64
1	89	66
0	137	40
5	116	74
3	78	50
10	115	0
2	197	70
8	125	96
4	110	92
10	168	74
10	139	80
1	189	60
5	166	72
7	100	0
0	118	84
7	107	74
1	103	30
1	115	70
3	126	88
8	99	84
7	196	90
9	119	80
11	143	94
10	125	70
7	147	76
1	97	66
13	145	82
5	117	92
5	109	75
3	158	76
3	88	58
6	92	92
10	122	78
4	103	60
11	138	76
9	102	76
2	90	68
4	111	72
3	180	64
7	133	84
7	106	92
0	171	41
Pregnancies	Glucose	BloodPressur



5	171	110
7	159	64
0	180	66
1	146	56
2	71	70
7	103	66
7	105	0

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Show 50 per page

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