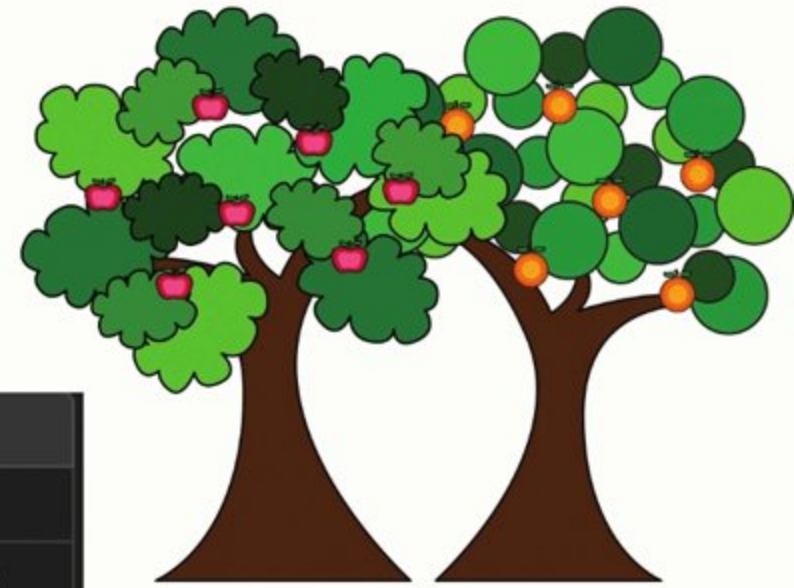
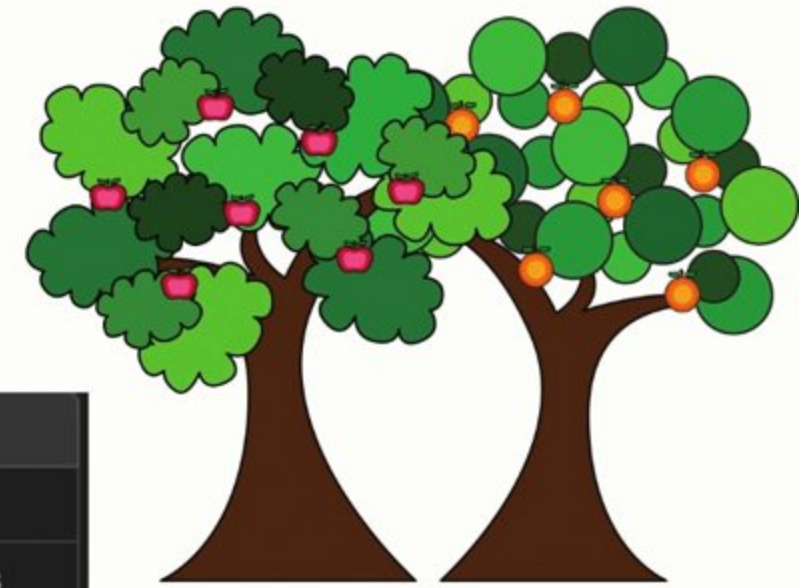


DATASET



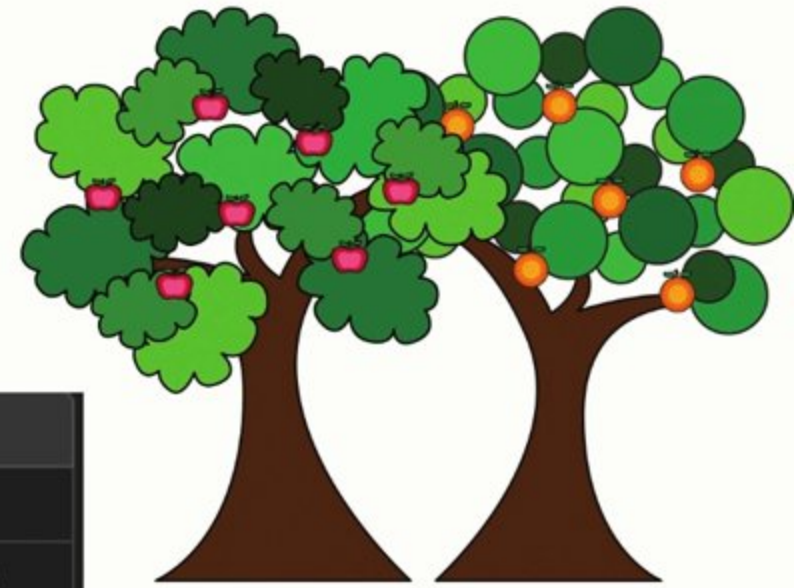
Index	Temperature	Rainfall	Humidity	Apples	Oranges	Cities
0	73	67	43	56	70	New York
1	91	88	64	81	101	Los Angeles
2	87	134	58	119	133	Chicago
3	102	43	37	22	37	Houston
4	69	96	70	103	119	Phoenix
5	85	100	60	98	110	Philadelphia
6	95	80	55	88	95	San Antonio
7	105	120	75	115	140	San Diego
8	78	90	50	76	85	Dallas
9	82	70	45	65	75	Austin

DATASET



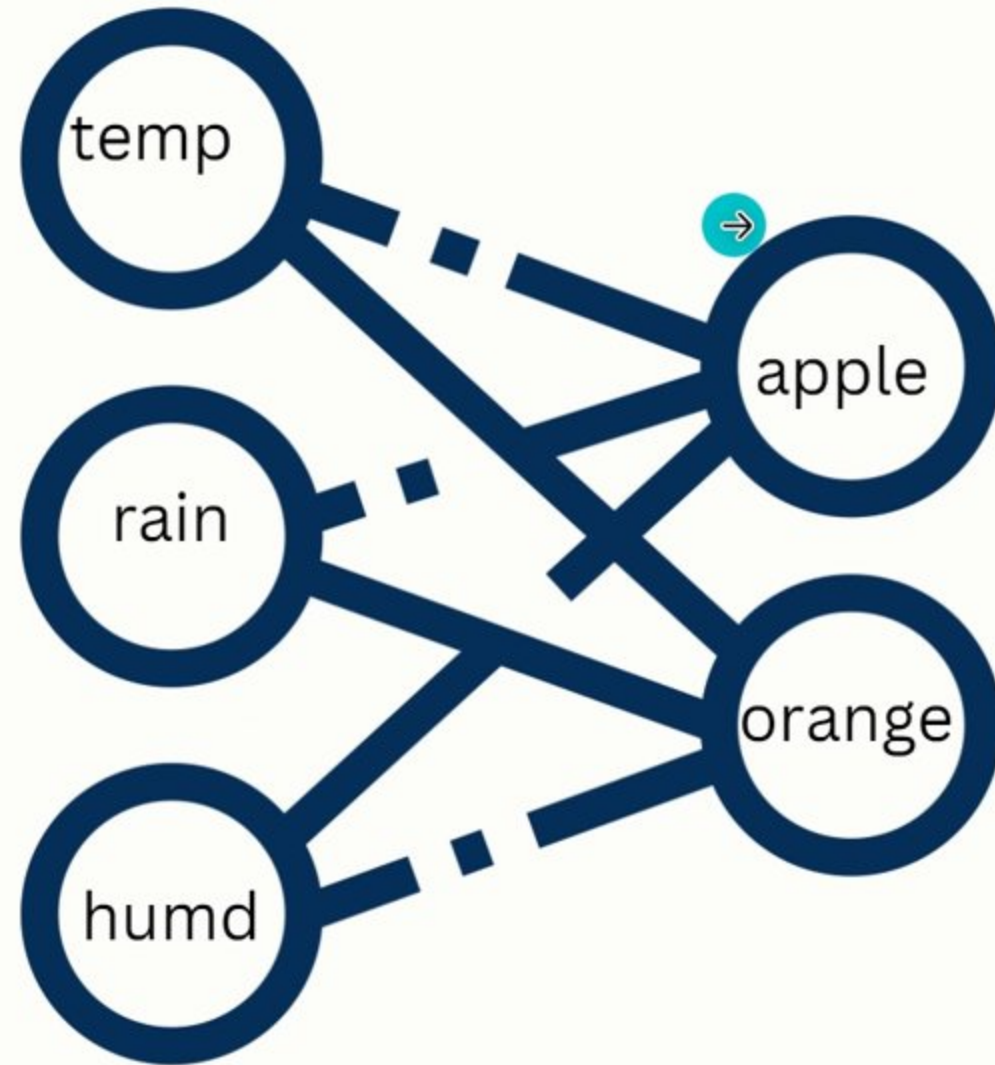
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DATASET



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SIMPLE NEURAL NETWORK



Pytorch.ipynb - Colab

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Connect T4 Gemini

BASIC NEURAL NETWORK

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▶

```
import torch
import numpy as np
|
# Input (temp, rainfall, humidity)
inputs = np.array([[73, 67, 43],
                  [91, 88, 64],
                  [87, 134, 58],
                  [102, 43, 37],
                  [69, 96, 70],
                  [85, 100, 60],
                  [95, 80, 55],
                  [105, 120, 75],
                  [78, 90, 50],
                  [82, 70, 45]], dtype='float32')

# Targets (apples, oranges)
targets = np.array([[56, 70],
                   [81, 101],
                   [119, 133],
                   [22, 37],
                   [103, 119],
                   [98, 110],
```

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Pytorch.ipynb - Colab

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T4 RAM Disk

Gemini

Paused

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```
[102, 43, 37],
[69, 96, 70],
[85, 100, 60],
[95, 80, 55],
[105, 120, 75],
[78, 90, 50],
[82, 70, 45]], dtype='float32')

# Targets (apples, oranges)
targets = np.array([[56, 70],
[81, 101],
[119, 133],
[22, 37],
[103, 119],
[98, 110],
[88, 95],
[115, 140],
[76, 85],
[65, 75]], dtype='float32')
```

[] Start coding or generate with AI.

[] Start coding or generate with AI.

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Pytorch.ipynb - Colab

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T4 RAM Disk

Gemini

Paused

7s

[1]

```
[105, 120, 75],
[78, 90, 50],
[82, 70, 45]], dtype='float32')

# Targets (apples, oranges)
targets = np.array([56, 70],
[81, 101],
[119, 133],
[22, 37],
[103, 119],
[98, 110],
[88, 95],
[115, 140],
[76, 85],
[65, 75]], dtype='float32')
```

inputs = torch.from_numpy(inputs)
targets = torch.from_numpy(targets)

[] Start coding or generate with AI.

[] Start coding or generate with AI.

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T4 RAM Disk

Gemini

Paused

7s

[1]

```
[105, 120, 75],
[78, 90, 50],
[82, 70, 45]], dtype='float32')

# Targets (apples, oranges)
targets = np.array([56, 70],
[81, 101],
[119, 133],
[22, 37],
[103, 119],
[98, 110],
[88, 95],
[115, 140],
[76, 85],
[65, 75]], dtype='float32')
```

inputs = torch.from_numpy(inputs)
targets = torch.from_numpy(targets)

[] Start coding or generate with AI.

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udemy

Pytorch.ipynb - Colab

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T4 RAM Disk

Gemini

Paused

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```
inputs = torch.from_numpy(inputs)
targets = torch.from_numpy(targets)
print(inputs)
print(targets)
```

tensor([[73., 67., 43.],
 [91., 88., 64.],
 [87., 134., 58.],
 [102., 43., 37.],
 [69., 96., 70.],
 [85., 100., 60.],
 [95., 80., 55.],
 [105., 120., 75.],
 [78., 90., 50.],
 [82., 70., 45.]])

tensor([[56., 70.],
 [81., 101.],
 [119., 133.],
 [22., 37.],
 [103., 119.],
 [98., 110.],
 [88., 95.],
 [115., 140.],
 [76., 85.],
 [65., 75.]])

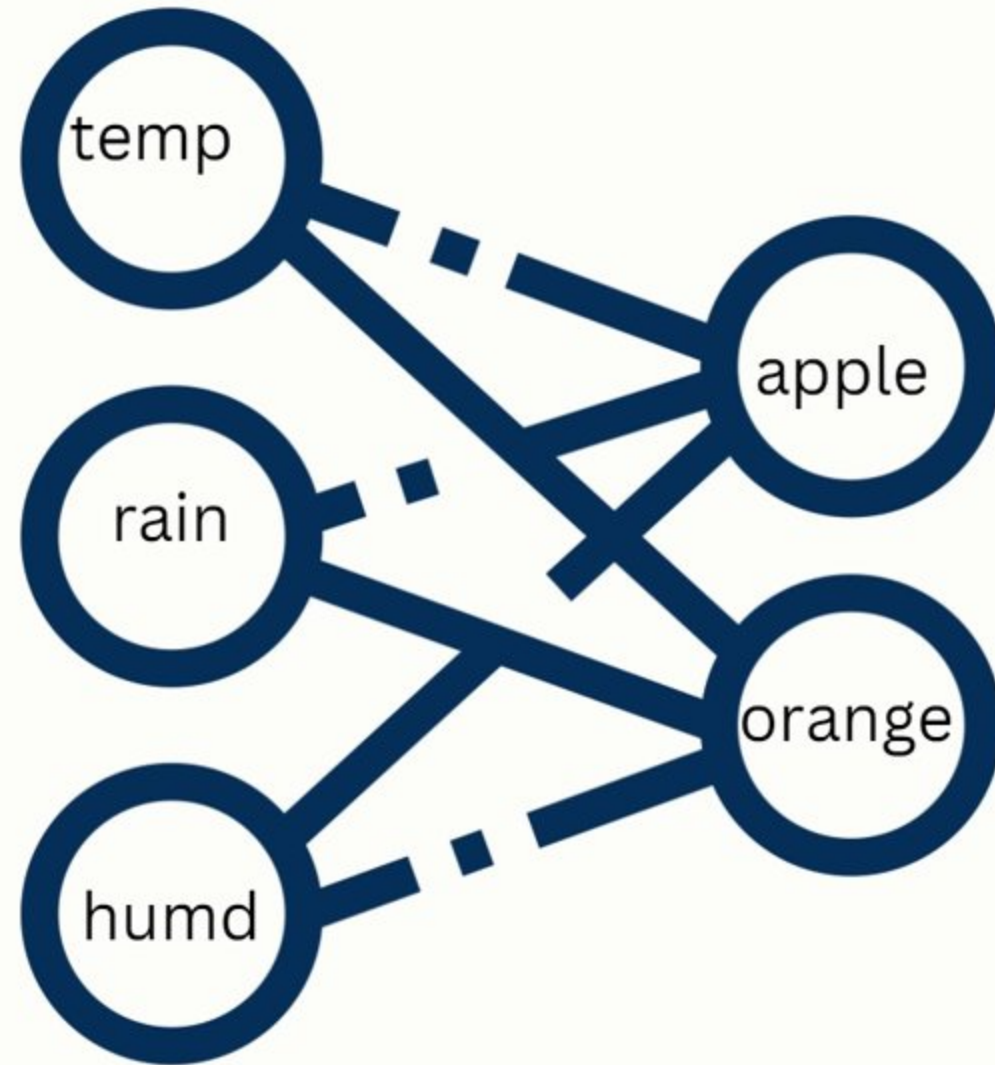
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SIMPLE NEURAL NETWORK



Pytorch.ipynb - Colab

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RAM

Disk

T4

Gemini

Paused

+ Code

+ Text

All changes saved

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tensor([[70., 50., 50.],
[82., 70., 45.]])
tensor([[56., 70.],
[81., 101.],
[119., 133.],
[22., 37.],
[103., 119.],
[98., 110.],
[88., 95.],
[115., 140.],
[76., 85.],
[65., 75.]])

0s

✓

▶

w = torch.randn(3,2, requires_grad=True)
b = torch.randn(2, requires_grad=True)
print(w)
print(b)

tensor([[0.3865, 0.6463],
[0.6664, 0.2998],
[1.5070, -0.1798]], requires_grad=True)
tensor([0.8740, -0.7764], requires_grad=True)

[] Start coding or generate with AI.

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