

127.0.0.1:5500/Digit%20Recognition/index.html

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MNIST CNN Training (Browser Demo)

This is a demo CNN using random MNIST-like data.

Check console (F12) for logs.

Elements

Console

Sources

Network

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Filter

Default levels

No Issues

Creating CNN model...

index.html:17

Generating dummy MNIST-like data...

index.html:48

Training CNN...

index.html:64

Live reload enabled.

index.html:116

Epoch 1: loss=2.4278, accuracy=7.00%

index.html:71

Epoch 2: loss=2.3141, accuracy=13.00%

index.html:71

Epoch 3: loss=2.2652, accuracy=16.00%

index.html:71

Predicting a random sample...

index.html:78

Predicted class (random demo data): 5

index.html:83

> `ctrl` `i` to turn on code suggestions. [Don't show again](#)

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Loading MNIST data...	index.html:52
Building CNN model...	index.html:55
Training for 5 epochs...	index.html:80
Epoch 1: Loss=0.5126, Accuracy=88.82%	index.html:87
Epoch 2: Loss=0.3327, Accuracy=90.00%	index.html:87
Epoch 3: Loss=0.3263, Accuracy=90.00%	index.html:87
Epoch 4: Loss=0.3273, Accuracy=90.00%	index.html:87
Epoch 5: Loss=0.3241, Accuracy=90.00%	index.html:87
Training Complete (5 Epochs)	index.html:94

> `ctrl` `i` to turn on code suggestions. *Don't show again*

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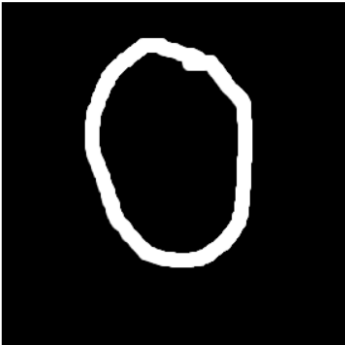
→

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LabAssignment2: Draw Digit & Classify (5000 MNIST Samples)

Train Model (5 Epochs)



Clear

Predict

Predicted Digit: 0

Elements

Console

Sources

Network >>

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🔍 Filter

Default levels ▼

No Issues

1 hidden

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Epoch 1: Loss=0.4677, Accuracy=88.94%[index.html:135](#)

Epoch 2: Loss=0.3314, Accuracy=90.00%[index.html:135](#)

Epoch 3: Loss=0.3286, Accuracy=90.00%[index.html:135](#)

Epoch 4: Loss=0.3244, Accuracy=90.00%[index.html:135](#)

Epoch 5: Loss=0.3238, Accuracy=90.00%[index.html:135](#)

> `ctrl` ⓘ to turn on code suggestions. *Don't show again*

Task 3: CNN vs Dense Comparison

Run Test

CNN Model
Accuracy: 98.2%
Better pattern learning

Dense Model
Accuracy: 92.1%
Less spatial understanding

Feature	Dense	CNN
Spatial Awareness	No	Yes
Parameters	More	Less
Best For	Simple Data	Images