

RUN OUTPUT FOR TRAIN ACCURACY AND TEST ACCURACY:

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(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source % python3
PyTorch_Population_Data.py
/Users/akram/AKRAM_CODE_FOLDER/LLAMA_LLM_CPP/LLM_EXPLORE/
Source/PyTorch_Population_Data.py:9: DeprecationWarning:
Pyarrow will become a required dependency of pandas in the next major
release of pandas (pandas 3.0),
(to allow more performant data types, such as the Arrow string type, and better
interoperability with other libraries)
but was not found to be installed on your system.
If this would cause problems for you,
please provide us feedback at https://github.com/pandas-dev/pandas/issues/54466
```

```
import pandas as pd
Using Device Arithmetic UNIT FROM ISHERIFF Sytem (CPU,GPU,TPU,DPU):cpu
Generated Dataset is X: tensor([[0.0000],
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    [0.0200],
    [0.0400],
    [0.0600],
    [0.0800],
    [0.1000],
    [0.1200],
    [0.1400],
    [0.1600],
    [0.1800]]),y:tensor([[0.3000],
    [0.3160],
    [0.3320],
    [0.3480],
    [0.3640],
    [0.3800],
    [0.3960],
    [0.4120],
    [0.4280],
    [0.4440]])
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Epoch: 0 | Train loss: 0.5161778926849365 | Test loss: 0.484976202249527
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Epoch: 100 | Train loss: 0.02189558744430542 | Test loss:
0.05040008947253227
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Epoch: 200 | Train loss: 0.0066923960112035275 | Test loss:
0.009748863987624645
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Epoch: 300 | Train loss: 0.0066923960112035275 | Test loss:
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Epoch: 400 | Train loss: 0.0066923960112035275 | Test loss: 0.009748863987624645

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(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source % pip install pyarrow

Requirement already satisfied: pyarrow in /usr/local/lib/python3.11/site-packages (14.0.2)

Requirement already satisfied: numpy>=1.16.6 in /usr/local/lib/python3.11/site-packages (from pyarrow) (1.26.4)

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(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source % python3
PyTorch_Population_Data.py
File "/Users/akram/AKRAM_CODE_FOLDER/LLAMA_LLM_CPP/LLM_EXPLORE/
Source/PyTorch_Population_Data.py", line 74
    model_1.train() # train mode is on by default after construction
IndentationError: unexpected indent
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0.484976202249527

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Test loss: 0.009748863987624645
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Test loss: 0.009748863987624645
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(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source %
(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source % cat output.txt
Using Device Arithmetic UNIT FROM ISHERIFF Sytem (CPU,GPU,TPU,DPU):cpu
Generated Dataset is X: tensor([[0.0000],
[0.0200],
[0.0400],
[0.0600],
[0.0800],
[0.1000],
[0.1200],
[0.1400],
[0.1600],
[0.1800]]),y:tensor([[0.3000],
[0.3160],
[0.3320],
[0.3480],
[0.3640],
[0.3800],
[0.3960],
[0.4120],
[0.4280],
[0.4440]])
Epoch: 0 | Train loss: 0.5161778926849365 | Test loss: 0.484976202249527
Epoch: 100 | Train loss: 0.02189558744430542 | Test loss:
0.05040008947253227
Epoch: 200 | Train loss: 0.0066923960112035275 | Test loss:
0.009748863987624645
Epoch: 300 | Train loss: 0.0066923960112035275 | Test loss:
0.009748863987624645
Epoch: 400 | Train loss: 0.0066923960112035275 | Test loss:
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Epoch: 500 | Train loss: 0.0066923960112035275 | Test loss:
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Epoch: 600 | Train loss: 0.0066923960112035275 | Test loss:
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Epoch: 700 | Train loss: 0.0066923960112035275 | Test loss:
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Epoch: 800 | Train loss: 0.0066923960112035275 | Test loss:
0.009748863987624645
Epoch: 900 | Train loss: 0.0066923960112035275 | Test loss:
0.009748863987624645
(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source %
(LLAMA_ENV) akram@ISHERIFF-M-RBNA Source %

