HW2

Student

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Total Points

4 / 4 pts

Question 1

(no title)   **2** / 2 pts

✔ **+ 2 pts** Correct

+ 1 pt Partially correct

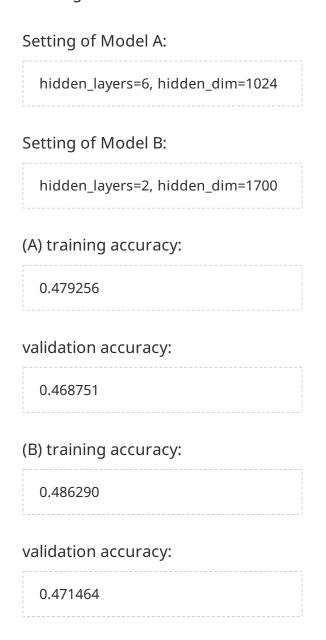**Question 2**

(no title)   **2** / 2 pts

✔ **+ 2 pts** Correct

+ 1 pt Partially correct

+ 0 pts Click here to replace this description.

Q1
2 Points

Implement 2 models with approximately the same number of parameters, (A) one narrower and deeper (e.g. hidden_layers=6, hidden_dim=1024) and (B) the other wider and shallower (e.g. hidden_layers=2, hidden_dim=1700). Report training/validation accuracies for both models.

Setting of Model A:

hidden_layers=6, hidden_dim=1024

Setting of Model B:

hidden_layers=2, hidden_dim=1700

(A) training accuracy:

0.479256

validation accuracy:

0.468751

(B) training accuracy:

0.486290

validation accuracy:

0.471464

Q2
2 Points

Add dropout layers, and report training/validation accuracies with dropout rates equal to (A) 0.25/(B) 0.5/(C) 0.75 respectively.

(A) training accuracy:

> 0.413597

validation accuracy:

> 0.467637

(B) training accuracy:

> 0.342167

validation accuracy:

> 0.467373

(C) training accuracy:

> 0.261711

validation accuracy:

> 0.464770