Problem 5 Assignment 3

Experiment with different hyperparameters

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▾ Comparision of results for different hyperparameters

val_error

- lr = 0.1 batch = 256 opt = Adam
- lr = 0.1 batch = 256 opt = SGD
- lr = 0.1 batch = 128 opt = Adam
- lr = 0.1 batch = 128 opt = SGD
- lr = 0.1 batch = 64 opt = Adam
- lr = 0.1 batch = 64 opt = SGD
- lr = 0.01 batch = 256 opt = Adam
- lr = 0.01 batch = 256 opt = SGD
- lr = 0.01 batch = 128 opt = Adam
- lr = 0.01 batch = 128 opt = SGD

train_error

- lr = 0.1 batch = 256 opt = Adam
- lr = 0.1 batch = 256 opt = SGD
- lr = 0.1 batch = 128 opt = Adam
- lr = 0.1 batch = 128 opt = SGD
- lr = 0.1 batch = 64 opt = Adam
- lr = 0.1 batch = 64 opt = SGD
- lr = 0.01 batch = 256 opt = Adam
- lr = 0.01 batch = 256 opt = SGD
- lr = 0.01 batch = 128 opt = Adam
- lr = 0.01 batch = 128 opt = SGD

As we can see best results were achieved with parameters set to lr=0.1, batch size=64 and optimizer = SGD.

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