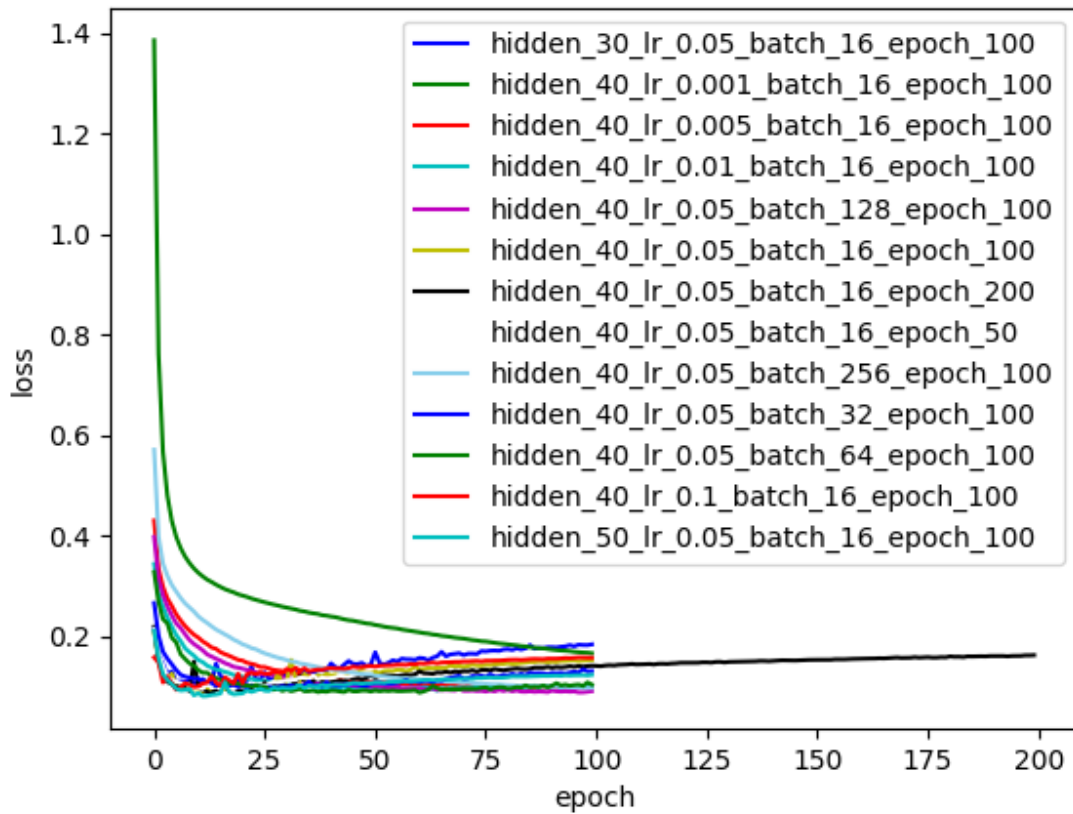```
hidden_50_lr_0.05_batch_16_epoch_40_train_loss.npy
hidden_40_lr_0.1_batch_16_epoch_100_train_loss.npy
hidden_50_lr_0.05_batch_16_epoch_100_test_acc.npy
hidden_40_lr_0.05_batch_16_epoch_200_validation_loss.npy
hidden_40_lr_0.005_batch_16_epoch_100_validation_loss.npy
hidden_40_lr_0.005_batch_16_epoch_100_train_loss.npy
hidden_40_lr_0.05_batch_16_epoch_50_validation_loss.npy
hidden_40_lr_0.05_batch_16_epoch_100_train_loss.npy
hidden_40_lr_0.01_batch_16_epoch_100_validation_loss.npy
hidden_40_lr_0.1_batch_16_epoch_100_validation_loss.npy
hidden_50_lr_0.05_batch_16_epoch_40_ws.npy
hidden_40_lr_0.05_batch_64_epoch_100_validation_loss.npy
hidden_40_lr_0.05_batch_16_epoch_50_train_loss.npy
hidden_40_lr_0.05_batch_32_epoch_100_train_loss.npy
hidden_50_lr_0.05_batch_16_epoch_100_train_loss.npy
hidden_50_lr_0.05_batch_16_epoch_40_validation_loss.npy
hidden_40_lr_0.05_batch_16_epoch_100_validation_loss.npy
hidden_30_lr_0.05_batch_16_epoch_100_train_loss.npy
hidden_40_lr_0.05_batch_128_epoch_100_validation_loss.npy
hidden_40_lr_0.05_batch_128_epoch_100_train_loss.npy
hidden_50_lr_0.05_batch_16_epoch_100_validation_loss.npy
hidden_40_lr_0.05_batch_32_epoch_100_validation_loss.npy
hidden_40_lr_0.05_batch_256_epoch_100_validation_loss.npy
hidden_40_lr_0.05_batch_64_epoch_100_train_loss.npy
hidden_40_lr_0.001_batch_16_epoch_100_validation_loss.npy
hidden_30_lr_0.05_batch_16_epoch_100_validation_loss.npy
hidden_40_lr_0.05_batch_16_epoch_200_train_loss.npy
hidden_40_lr_0.001_batch_16_epoch_100_train_loss.npy
hidden_40_lr_0.01_batch_16_epoch_100_train_loss.npy
hidden_50_lr_0.05_batch_16_epoch_40_test_acc.npy
hidden_40_lr_0.05_batch_256_epoch_100_train_loss.npy
****
The best hyperparameters: hidden_50_lr_0.05_batch_16_epoch_100_validation
The best validation loss: 0.08064415882351857
```

## validation loss

- hidden_30_lr_0.05_batch_16_epoch_100
- hidden_40_lr_0.001_batch_16_epoch_100
- hidden_40_lr_0.005_batch_16_epoch_100
- hidden_40_lr_0.01_batch_16_epoch_100
- hidden_40_lr_0.05_batch_128_epoch_100
- hidden_40_lr_0.05_batch_16_epoch_100
- hidden_40_lr_0.05_batch_16_epoch_200
- hidden_40_lr_0.05_batch_16_epoch_50
- hidden_40_lr_0.05_batch_256_epoch_100
- hidden_40_lr_0.05_batch_32_epoch_100
- hidden_40_lr_0.05_batch_64_epoch_100
- hidden_40_lr_0.1_batch_16_epoch_100
- hidden_50_lr_0.05_batch_16_epoch_100

## training loss

- hidden_30_lr_0.05_batch_16_epoch_100
- hidden_40_lr_0.001_batch_16_epoch_100
- hidden_40_lr_0.005_batch_16_epoch_100
- hidden_40_lr_0.01_batch_16_epoch_100
- hidden_40_lr_0.05_batch_128_epoch_100
- hidden_40_lr_0.05_batch_16_epoch_100
- hidden_40_lr_0.05_batch_16_epoch_200
- hidden_40_lr_0.05_batch_16_epoch_50
- hidden_40_lr_0.05_batch_256_epoch_100
- hidden_40_lr_0.05_batch_32_epoch_100
- hidden_40_lr_0.05_batch_64_epoch_100
- hidden_40_lr_0.1_batch_16_epoch_100
- hidden_50_lr_0.05_batch_16_epoch_100

test loss and accuracy