Jax Controller Report

Group 128

Conclusion

Initial weight parameters was set using Python's random library. The weights were set to a random number within the interval $[0, 1)$.

```
Training set MSE: 0.0392
Test set MSE: 0.0399
```

The result above was obtained with a learning rate of 0.001 and 1000 epochs.

```
Training set MSE: 0.0504
Test set MSE: 0.0517
```

The result above was obtained after setting the amount of epochs to 100 instead of 1000. Still using a learning rate of 0.001.

```
Training set MSE: 0.0389
Test set MSE: 0.0383
```

The best results was obtained with a learning rate of 0.05 and 1000 epochs. Slightly better than a learning rate of 0.001

Lotka-Volterra Population Plant