

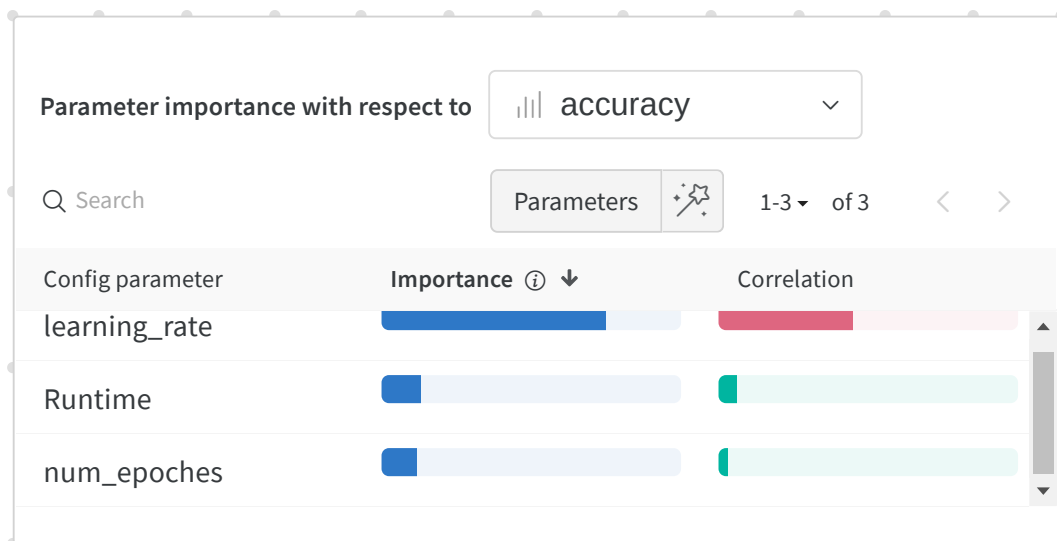
# Multinomial Logistic Regression

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## ⌵ Parameter Importance and correlation

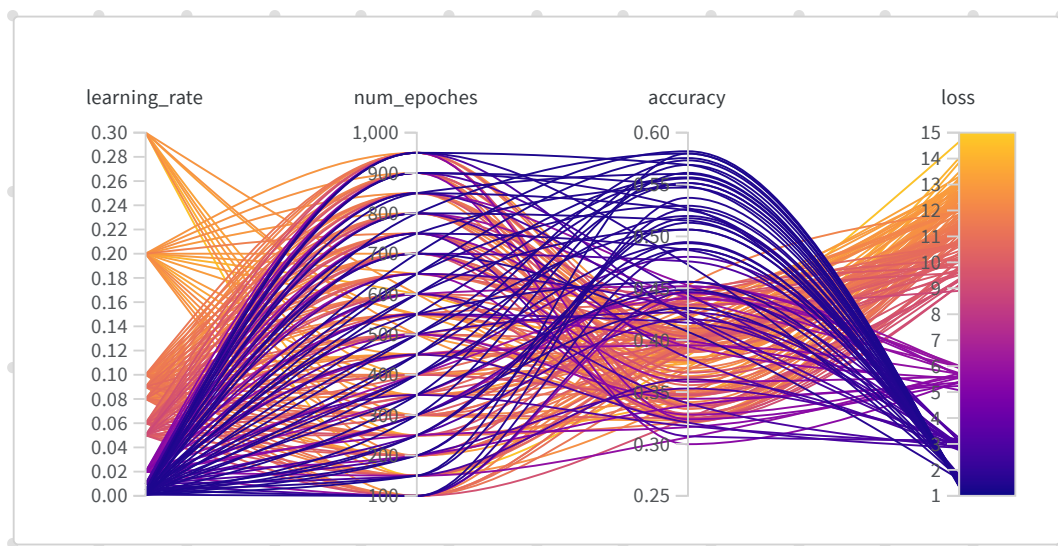
- Learning rate is the most important parameter with a high negative correlation to accuracy.
- Number of epochs is not so important parameter since after a certain number of epochs, the loss converges and no changes are seen in both loss as well as accuracy. Thus it has a small positive correlation.





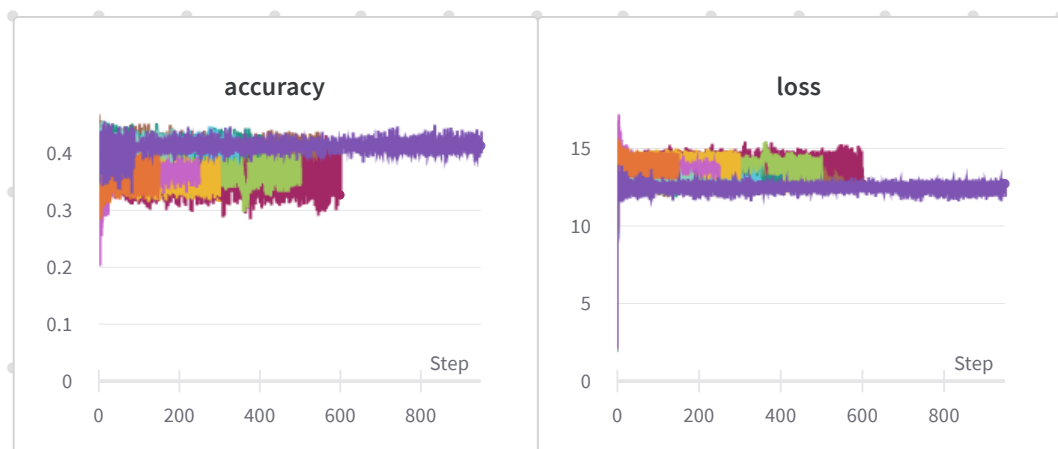
### ▼ Hyper-parameter tuning

- Eager-rain-13 run gives the optimal performance of the model with :-
- **Learning Rate : 0.001**
- **Num\_epochs : 700**
- Accuracy : 0.5821
- Loss = 1.384



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