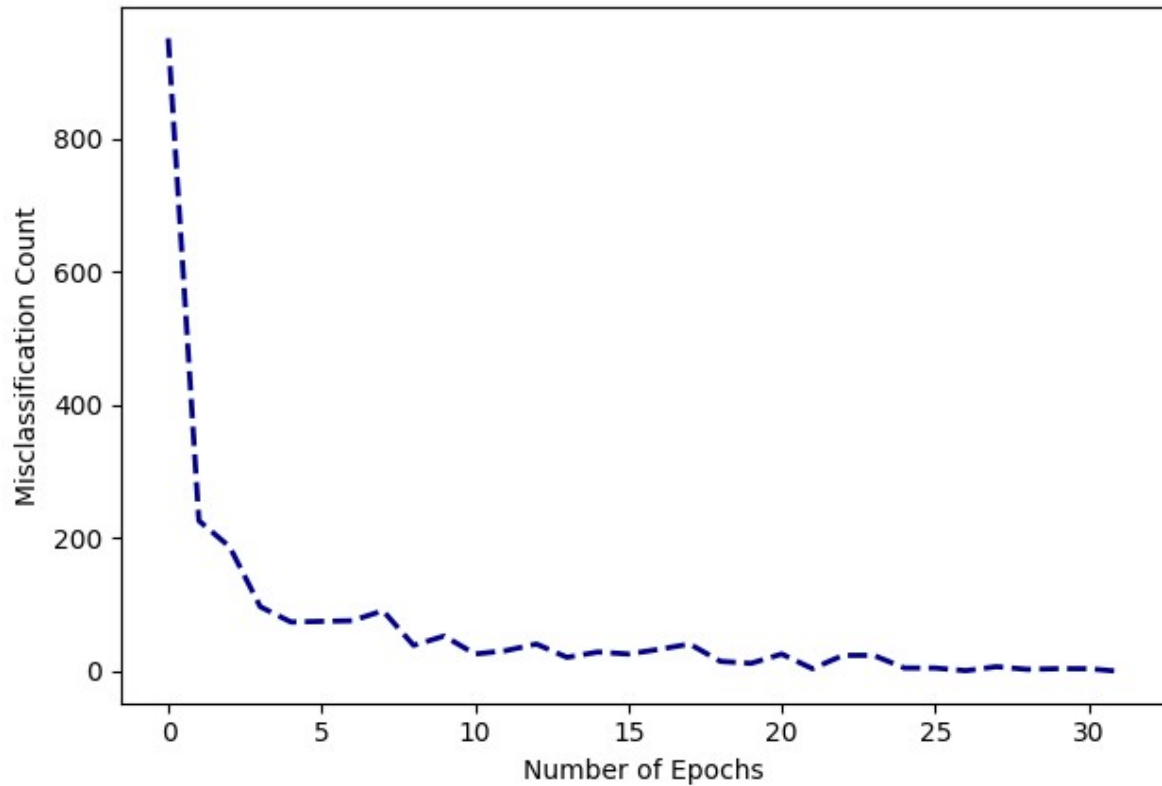


Executing Configuration F:

- Percentage of misclassified test samples: 45.6%

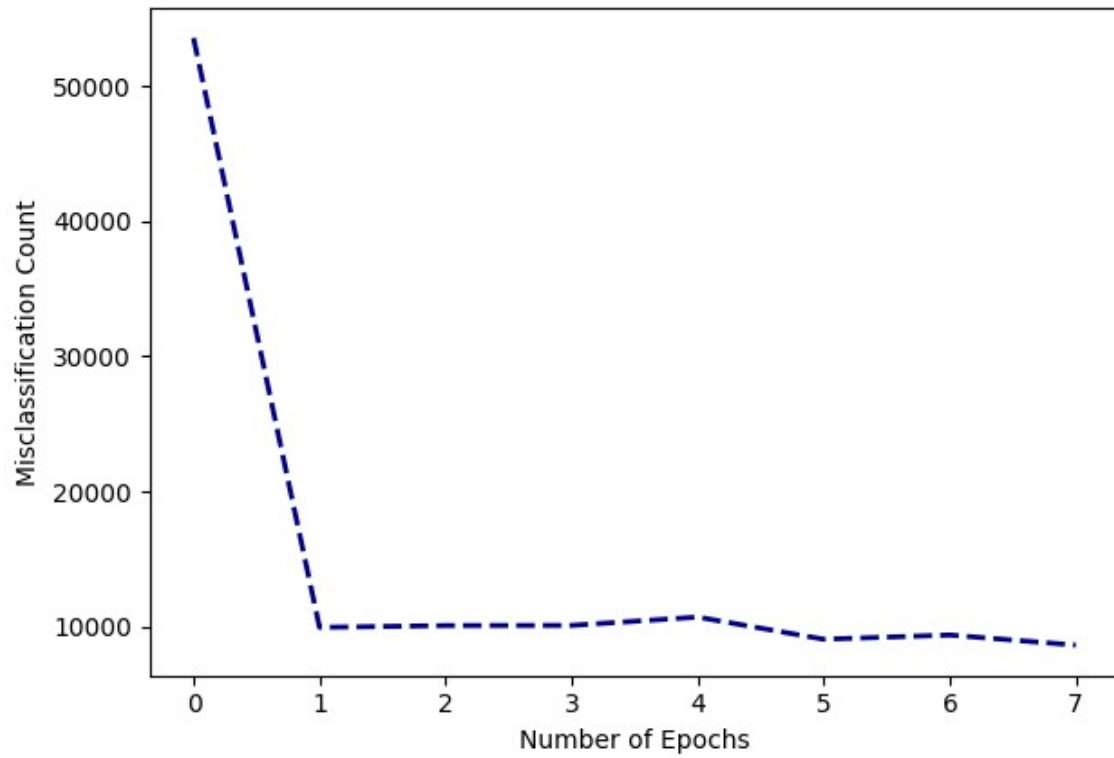
Epochs vs Misclassifications for eta=1, epsilon=0, n=1000



Executing Configuration G:

- Percentage of misclassified test samples: 17.8%

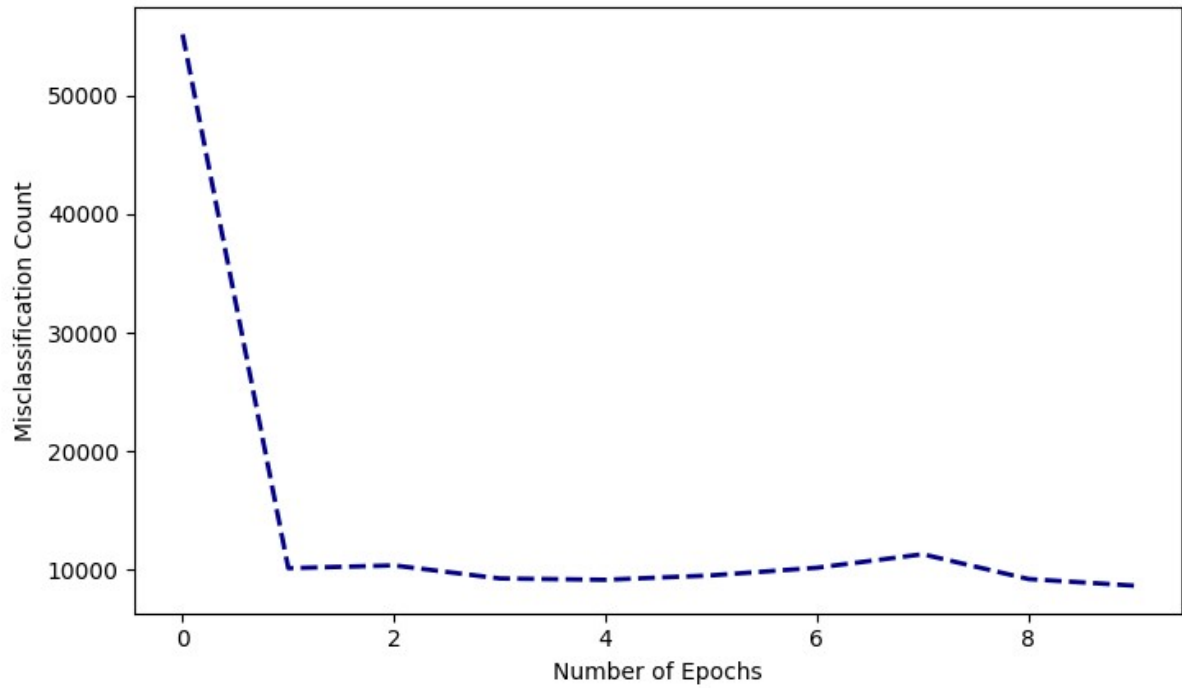
Epochs vs Misclassifications for $\eta=1$, $\epsilon=0.15$, $n=60000$



Executing Configuration H:

- Percentage of misclassified test samples: 17.02%

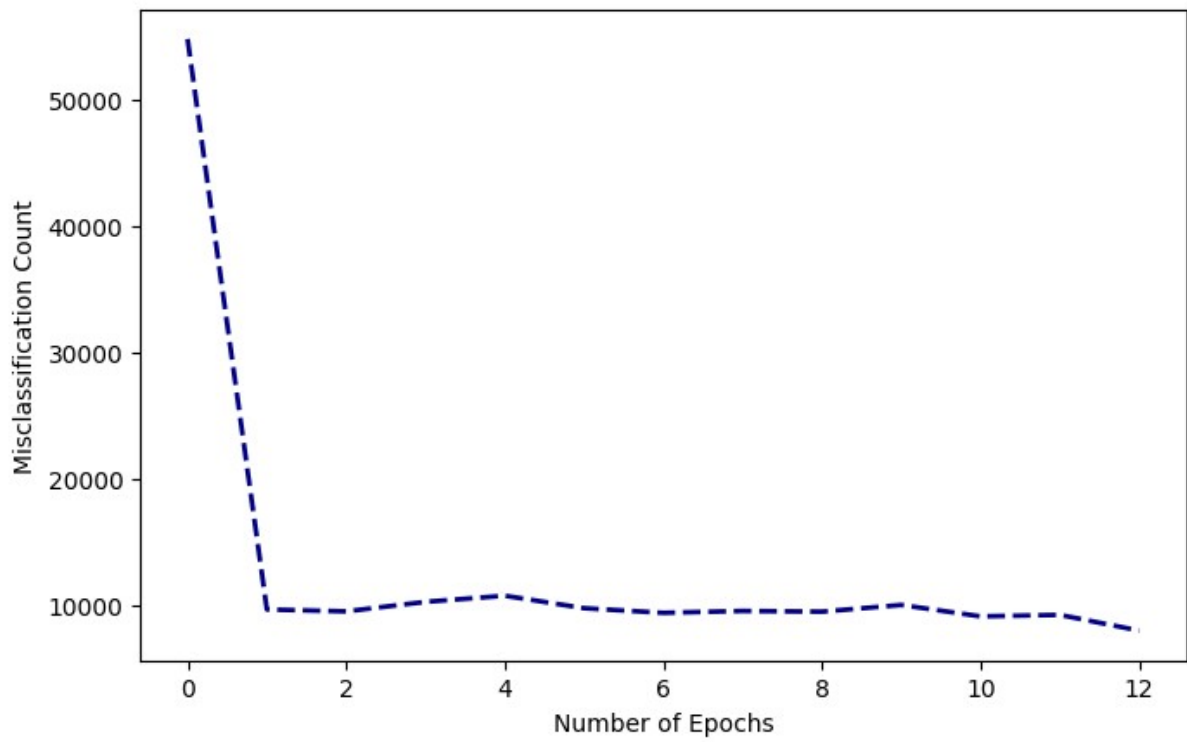
Iteration 1: Epochs vs Misclassifications for eta=0.5, epsilon=0.15, n=60000



Executing Configuration I Iteration 1:

- Percentage of misclassified test samples: 17.97%

Iteration 2: Epochs vs Misclassifications for eta=1, epsilon=0.15, n=60000



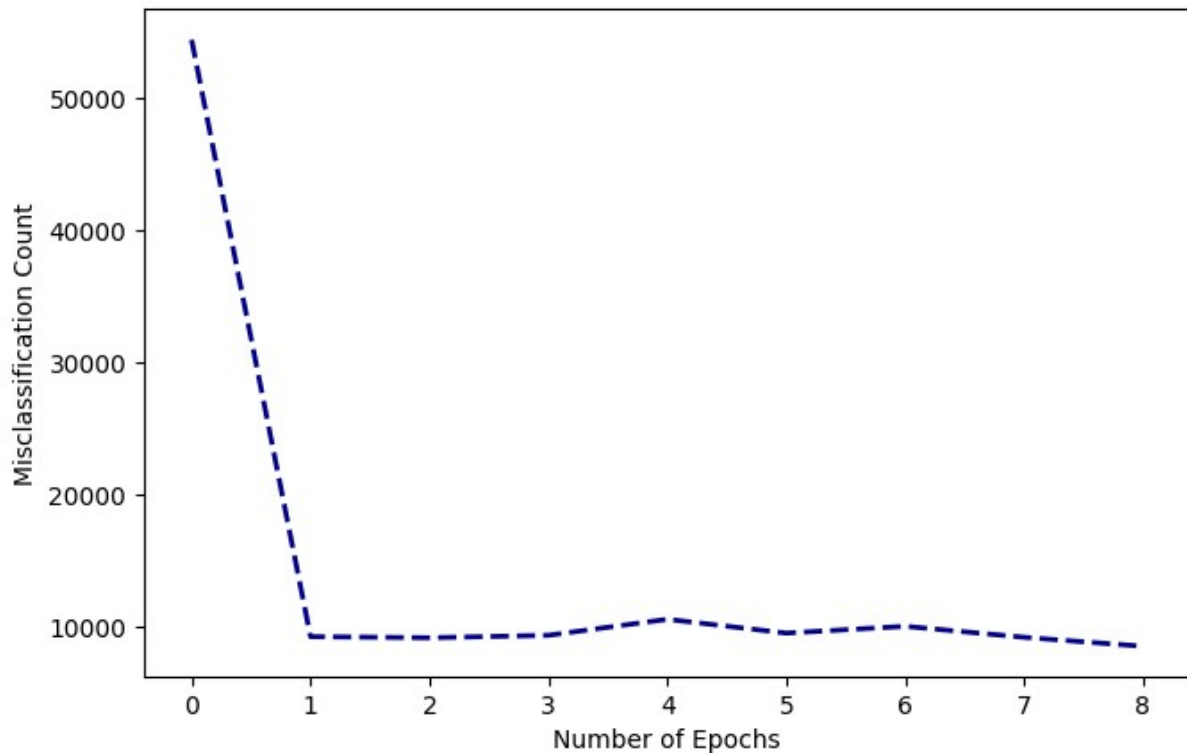
Executing Configuration I Iteration 2:

- Percentage of misclassified test samples: 17.94%

Executing Configuration I Iteration 3:

- Percentage of misclassified test samples: 14.51%

Iteration 3: Epochs vs Misclassifications for $\eta=1.5$, $\epsilon=0.15$, $n=60000$



Observations and Discrepancies:

- **Overfitting:** If the model demonstrates 0% error during training but exhibits a high error rate during testing, it is indicative of overfitting to the training data.
- **Data Variability:** Discrepancies in error rates may also arise due to differences between the training and testing datasets.
- **Model Complexity:** A model that is too simplistic may fail to encapsulate all the intricacies of the data, leading to discrepancies in error rates.
- **Increased Training Data:** Enhancing the quantity of training data (n) might result in improved generalization and a decrease in discrepancies between training and testing error rates, but this is effective only up to a certain threshold.