**Week 8**

**Table of content – Week8**

[Summary 1](#_Toc183197670)

[Milestones achieved 1](#_Toc183197671)

[Conclusion 1](#_Toc183197672)

# Summary

T

# Milestones achieved

We .

# Conclusion

.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Hyperparameter** | **Learning Rate** | **Iterations** | **Batch Size** | **Accuracy** | **Precision** | **Recall** | **F1-Score** | **Key Observations** |
| **Parameter Set 1** | **0.01** | **1000** | **32** | **XX%** | **XX%** | **XX%** | **XX%** | **Lower learning rate gives better stability, but slower convergence.** |
| **Parameter Set 2** | **0.1** | **500** | **64** | **XX%** | **XX%** | **XX%** | **XX%** | **Higher learning rate increases convergence speed but may lead to instability.** |
| **Parameter Set 3** | **0.001** | **2000** | **16** | **XX%** | **XX%** | **XX%** | **XX%** | **Optimal balance of learning rate, iterations, and batch size.** |

**Next Steps**



**References**

* Alok (2021) Logistic Regression: Practical Implementation in Python. Available at: https://alok05.medium.com/logistic-regression-practical-implementation-in-python-03cd2715ee8c (Accessed: 22 November 2024).