Sustainable Data Science and Artificial Intelligence

Tutorial #4

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| **My Name:** |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.25  #define EPOCHS 5000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.5  #define EPOCHS 5000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.75  #define EPOCHS 5000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 1  #define EPOCHS 5000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.25  #define EPOCHS 10000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.5  #define EPOCHS 10000 | Input: (0, 0) -> Output: 0.0164  Input: (0, 1) -> Output: 0.9790  Input: (1, 0) -> Output: 0.9869  Input: (1, 1) -> Output: 0.0146 |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.75  #define EPOCHS 10000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 1  #define EPOCHS 10000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.25  #define EPOCHS 20000 |  |

**Results:**

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| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.5  #define EPOCHS 20000 |  |

**Results:**

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| --- | --- |
| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 0.75  #define EPOCHS 20000 |  |

**Results:**

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| --- | --- |
| **Hyperparameters** | **Outputs** |
| #define LEARNING\_RATE 1  #define EPOCHS 20000 |  |

**The settings that give the best answer (e.g. 0,1,1,0):**

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