# **Old Data**

**Version 1:**

* Uses the **“split\_aug\_v1”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 69 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Max Pooling)** | 5 |
| **Conv2 Feature Map (w/ Max Pooling)** | 15 |
| **FC1 Output** | 1000 |
| **FC2 Output** | 10 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 100 |
| **Epochs** | 30 |
| **Learning Rate** | 0.01 |
| **Optimizer** | SGD -> momentum = 0.8 |

**Version 2:**

* Uses the **un-augmented data** file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 69 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Max Pooling)** | 5 |
| **Conv2 Feature Map (w/ Max Pooling)** | 15 |
| **FC1 Output** | 1000 |
| **FC2 Output** | 10 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 10 |
| **Epochs** | 50 |
| **Learning Rate** | 0.01 |
| **Optimizer** | SGD -> momentum = 0.8 |

**Version 3:**

* Uses the **“split\_aug\_v1”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 69 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Max Pooling)** | 5 |
| **Conv2 Feature Map (w/ Max Pooling)** | 15 |
| **FC1 Output** | 1000 |
| **FC2 Output** | 10 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 100 |
| **Epochs** | 30 |
| **Learning Rate** | 0.001 |
| **Optimizer** | Adam |

# **New Data**

**Version 4:**

* Uses the **“split\_aug\_v3”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 125 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Avg Pooling)** | 20 |
| **Conv2 Feature Map (w/ Avg Pooling)** | 30 |
| **Conv3 Feature Map (w/ Avg Pooling)** | 60 |
| **Conv4 Feature Map (w/ Avg Pooling)** | 100 |
| **FC1 Output** | 10 |
| **FC1 Droput** | 0.7 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 10 |
| **Epochs** | 100 |
| **Learning Rate** | 0.001 |
| **Optimizer** | Adam |

**Version 5:**

* Uses the **“split\_aug\_v4”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 125 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Avg Pooling)** | 20 |
| **Conv2 Feature Map (w/ Avg Pooling)** | 30 |
| **Conv3 Feature Map (w/ Avg Pooling)** | 60 |
| **Conv4 Feature Map (w/ Avg Pooling)** | 100 |
| **FC1 Output** | 10 |
| **FC1 Droput** | 0.7 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 10 |
| **Epochs** | 30 |
| **Learning Rate** | 0.01 |
| **Optimizer** | SGD -> momentum = 0.8 |

**Version 6:**

* Uses the **“split\_aug\_v4”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 125 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Avg Pooling)** | 20 |
| **Conv2 Feature Map (w/ Avg Pooling)** | 30 |
| **Conv3 Feature Map (w/ Avg Pooling)** | 60 |
| **FC1 Output** | 10 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 10 |
| **Epochs** | 100 |
| **Learning Rate** | 0.01 |
| **Optimizer** | SGD -> momentum = 0.8 |

**Version 7:**

* Uses the **“split\_aug\_v4”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 125 |
| **Kernel Size** | 5 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Avg Pooling)** | 20 |
| **Conv2 Feature Map (w/ Avg Pooling)** | 30 |
| **Conv3 Feature Map (w/ Avg Pooling)** | 100 |
| **FC1 Output** | 10 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 10 |
| **Epochs** | 100 |
| **Learning Rate** | 0.0101 |
| **Optimizer** | SGD -> momentum = 0.8 |

**Version 8:**

* Uses the **“split\_aug\_v6”** data file

|  |  |
| --- | --- |
| **Model Architecture** | |
| **Input Size** | 70 |
| **Kernel Size** | 3 |
| **Activation Function** | Relu |
| **Conv1 Feature Map (w/ Avg Pooling)** | 32 |
| **Conv2 Feature Map (w/ Avg Pooling)** | 60 |
| **Conv3 Feature Map (w/ Avg Pooling)** | 100 |
| **Batch Normalization after every conv** | True |
| **FC1 Output** | 10 |
| **FC1 Droput** | 0.25 |

|  |  |
| --- | --- |
| **Training Parameters** | |
| **Batch size** | 20 |
| **Epochs** | 50 |
| **Learning Rate** | 0.01 |
| **Optimizer** | SGD -> momentum = 0.8 |