**MihirNet1:**

**\*Score is based on validation set**

|  |  |  |
| --- | --- | --- |
| **NMSE\_te (dB)** | **SSIM\_te** | **Grade** |
| -18.200 | 0.835 | 87.500 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Batch Size** | **Learning Rate** | **Sig** | **Num Epoch** | **Activation** |
| 2 | 0.001 | 0.1 | 20 | ReLU |

**Hyperparameters**

|  |  |
| --- | --- |
| A graph of training and validation  Description automatically generated | A screenshot of a computer program  Description automatically generated |

A collage of images of a brain

Description automatically generated

**MihirNet1 (50 epochs):**

**\*Score is based on validation set**

|  |  |  |
| --- | --- | --- |
| **NMSE\_te (dB)** | **SSIM\_te** | **Grade** |
| -18.656 | 0.843 | 89.779 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Batch Size** | **Learning Rate** | **Sig** | **Num Epoch** | **Activation** |
| 2 | 0.001 | 0.1 | 50 | ReLU |

**Hyperparameters**

|  |  |
| --- | --- |
|  | A computer screen shot of a program  Description automatically generated |

A collage of images of a brain

Description automatically generated

**MihirNet2:**

**\*Score is based on validation set**

**Skip connection from Layer 1 -> Layer 4**

|  |  |  |
| --- | --- | --- |
| **NMSE\_te (dB)** | **SSIM\_te** | **Grade** |
| -17.568 | 0.79 | 84.340 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Batch Size** | **Learning Rate** | **Sig** | **Num Epoch** | **Activation** |
| 2 | 0.001 | 0.1 | 15 | ReLU |

**Hyperparameters**

|  |  |
| --- | --- |
|  | A computer screen shot of white text  Description automatically generated |

A collage of images of a brain

Description automatically generated

**MihirNet2 (with 100 epochs):**

|  |  |  |
| --- | --- | --- |
| **NMSE\_te (dB)** | **SSIM\_te** | **Grade** |
| -19.229 | 0.864 | 92.645 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Batch Size** | **Learning Rate** | **Sig** | **Num Epoch** | **Activation** |
| 2 | 0.0001 | 0.1 | 50 | ReLU |

**Hyperparameters**

|  |  |
| --- | --- |
|  | A screenshot of a computer program  Description automatically generated |

A collage of images of a brain

Description automatically generated

**MihirNet2 (with 50 epochs):**

**\*Score is based on validation set**

|  |  |  |
| --- | --- | --- |
| **NMSE\_te (dB)** | **SSIM\_te** | **Grade** |
| -18.706 | 0.842 | 90.029 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Batch Size** | **Learning Rate** | **Sig** | **Num Epoch** | **Activation** |
| 2 | 0.0001 | 0.1 | 50 | ReLU |

**Hyperparameters**

|  |  |
| --- | --- |
| A graph of training and validation  Description automatically generated | A screenshot of a computer program  Description automatically generated |

**MihirNet3 (with 100 epochs):**

|  |  |  |
| --- | --- | --- |
| **NMSE\_te (dB)** | **SSIM\_te** | **Grade** |
| -18.706 | 0.842 | 90.029 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Batch Size** | **Learning Rate** | **Sig** | **Num Epoch** | **Activation** |
| 2 | 0.0001 | 0.1 | 50 | ReLU |

**Hyperparameters**

|  |  |
| --- | --- |
|  |  |