|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Mean Train Accuracy** | **Mean Train Loss** | **Mean Validation/Test Accuracy** | **Mean Validation/Test Loss** | **Prediction Time (s)** | **Training Time (s)** | **Sensors Amount Used** | **Size /Stride** |
| Naïve Model | - | - | 45% | - | 5 | - | 8 | 5000/ 1000 |
| Decision Tree | - | - | 40% | - | 0.18 | 98 | 40 | 1/1 |
| Version 1 | 85% | 0.54 | 71.5% | 0.986 | 7 | 51 | 40 | 50/30 |
| Version 2 | 92.6% | 0.45 | 77.7% | 0.86 | 4 | 120 | 40 | 2000/ 200 |
| Final Version | 97.7% | 0.09 | 70.6% | 1.76 | 4.5 | 53.8 | 40 | 2000/ 200 |
| Self-Supervised Pretrained Model | 86% | 0.33 | 59% | 1.88 | 1.17 | - | 40 | 2000/ 200 |