**Machine Learning Algorithm Results Movements (0-15)**

**Time Calculations:**

|  |  |
| --- | --- |
| Algorithms | Exercise C  Movement  (0-15) |
| Decision Tree Classifier | 1.265 |
| KNeighbors Classifier | 0.584 |
| Random Forest | 33.408 |
| Extra Trees Classifier | 23.468 |
| XGBoost | 120.370 |

**Table:** Comparison of Time Calculations (Seconds)

**Accuracy Results:**

|  |  |
| --- | --- |
| Algorithms | Exercise C  Movement  (0-15) |
| Decision Tree Classifier | 92.898% |
| KNeighbors Classifier | 97.778% |
| Random Forest | 97.428% |
| Extra Trees Classifier | 97.631% |
| XGBoost | 95.317% |

**Table:** Comparison of Accuracy.

**F1 Score Results:**

|  |  |
| --- | --- |
| Algorithms | Exercise C  Movement  (0-15) |
| Decision Tree Classifier | 0.929 |
| KNeighbors Classifier | 0.978 |
| Random Forest | 0.974 |
| Extra Trees Classifier | 0.976 |
| XGBoost | 0.952 |

**Table:** Comparison of F1 Score.

**Deep Learning Algorithm Results Movements (0-15)**

**Time Calculations:**

|  |  |
| --- | --- |
| Algorithms | Exercise C  Movement  (0-15) |
| Deep Learning | 17799.559 |

**Table:** Comparison of Deep Learning Time Calculations (Seconds)

**Accuracy Results:**

|  |  |
| --- | --- |
| Algorithms | Exercise C  Movement  (0-15) |
| Deep Learning | 98.461% |

**Table:** Comparison of Deep Learning Accuracy Score.

**F1 Score Results:**

|  |  |
| --- | --- |
| Algorithms | Exercise C  Movement  (0-15) |
| Deep Learning | 0.985 |

**Table:** Comparison of Deep Learning F1 Score.