**Result of Lateral femur**

1. **1st level GLCM**
2. **Feature Selection: CFS (bin =10)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.595** | **0.431** | **0.431** | **0.765** | **0.35** | **0.378** |
| **Bay Net** | **0.624** | **0.408** | **0.408** | **0.755** | **0.337** | **0.36** |
| **Naïve Base** | **0.621** | **0.408** | **0.408** | **0.75** | **0.333** | **0.355** |
| **SVM** | **0.57** | **0.423** | **0.423** | **0.718** | **0.274** | **0.319** |
| **Logistic** | **0.589** | **0.315** | **0.315** | **0.794** | **0.33** | **0.322** |
| **Multi Layers** | **0.567** | **0.323** | **0.323** | **0.775** | **0.317** | **0.32** |
| **SMO** | **0.601** | **0.438** | **0.438** | **0.776** | **0.398** | **0.408** |
| **J48** | **0.612** | **0.462** | **0.462** | **0.763** | **0.33** | **0.377** |
| **J48 Binary tree** | **0.569** | **0.338** | **0.338** | **0.749** | **0.302** | **0.316** |

1. **Feature Selection: CFS (bin =5)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.63** | **0.454** | **0.454** | **0.751** | **0.309** | **0.367** |
| **Bay Net** | **0.641** | **0.431** | **0.431** | **0.751** | **0.295** | **0.35** |
| **Naïve Base** | **0.637** | **0.438** | **0.438** | **0.749** | **0.295** | **0.352** |
| **SVM** | **0.61** | **0.496** | **0.496** | **0.751** | **0.3** | **0.366** |
| **Logistic** | **0.637** | **0.415** | **0.415** | **0.749** | **0.289** | **0.34** |
| **Multi Layers** | **0.633** | **0.415** | **0.415** | **0.76** | **0.343** | **0.362** |
| **SMO** | **0.629** | **0.454** | **0.454** | **0.758** | **0.337** | **0.373** |
| **J48** | **0.626** | **0.446** | **0.446** | **0.738** | **0.283** | **0.346** |
| **J48 Binary tree** | **0.572** | **0.408** | **0.408** | **0.726** | **0.266** | **0.322** |

1. **CLBP**
2. **Feature Selection: CFS (bin =10)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.739** | **0.446** | **0.446** | **0.768** | **0.382** | **0.391** |
| **Bay Net** | **0.76** | **0.485** | **0.485** | **0.805** | **0.467** | **0.464** |
| **Naïve Base** | **0.763** | **0.485** | **0.485** | **0.8** | **0.464** | **0.46** |
| **SVM** | **0.5** | **0.338** | **0.338** | **0.762** | **0.115** | **0.171** |
| **Logistic** | **0.689** | **0.408** | **0.408** | **0.835** | **0.456** | **0.423** |
| **Multi Layers** | **0.745** | **0.477** | **0.477** | **0.811** | **0.457** | **0.461** |
| **SMO** | **0.69** | **0.492** | **0.492** | **0.836** | **0.508** | **0.497** |
| **J48** | **0.536** | **0.3** | **0.3** | **0.754** | **0.282** | **0.29** |
| **J48 Binary tree** | **0.554** | **0.338** | **0.338** | **0.779** | **0.337** | **0.337** |

1. **Feature Selection: CFS (bin =5)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.714** | **0.454** | **0.454** | **0.793** | **0.377** | **0.406** |
| **Bay Net** | **0.729** | **0.415** | **0.415** | **0.799** | **0.385** | **0.393** |
| **Naïve Base** | **0.725** | **0.446** | **0.446** | **0.806** | **0.408** | **0.421** |
| **SVM** | **0.547** | **0.392** | **0.392** | **0.702** | **0.239** | **0.28** |
| **Logistic** | **0.609** | **0.369** | **0.369** | **0.8** | **0.403** | **0.381** |
| **Multi Layers** | **0.69** | **0.415** | **0.415** | **0.808** | **0.417** | **0.415** |
| **SMO** | **0.654** | **0.385** | **0.385** | **0.799** | **0.429** | **0.391** |
| **J48** | **0.498** | **0.262** | **0.262** | **0.745** | **0.244** | **0.251** |
| **J48 Binary tree** | **0.521** | **0.277** | **0.277** | **0.762** | **0.265** | **0.266** |

1. **Gabor**
2. **Feature Selection: CFS (bin =10)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.665** | **0.408** | **0.408** | **0.755** | **0.455** | **0.388** |
| **Bay Net** | **0.742** | **0.5** | **0.5** | **0.811** | **0.514** | **0.496** |
| **Naïve Base** | **0.735** | **0.523** | **0.523** | **0.815** | **0.537** | **0.514** |
| **SVM** | **0.5** | **0.338** | **0.338** | **0.762** | **0.115** | **0.171** |
| **Logistic** | **0.64** | **0.346** | **0.346** | **0.778** | **0.334** | **0.338** |
| **Multi Layers** | **0.667** | **0.415** | **0.415** | **0.775** | **0.415** | **0.407** |
| **SMO** | **0.662** | **0.415** | **0.415** | **0.789** | **0.417** | **0.409** |
| **J48** | **0.525** | **0.285** | **0.285** | **0.75** | **0.289** | **0.284** |
| **J48 Binary tree** | **0.534** | **0.292** | **0.292** | **0.761** | **0.293** | **0.291** |

1. **Feature Selection: CFS (bin =5)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.679** | **0.431** | **0.431** | **0.779** | **0.413** | **0.407** |
| **Bay Net** | **0.726** | **0.492** | **0.492** | **0.822** | **0.507** | **0.492** |
| **Naïve Base** | **0.721** | **0.485** | **0.485** | **0.811** | **0.512** | **0.485** |
| **SVM** | **0.563** | **0.415** | **0.415** | **0.711** | **0.278** | **0.313** |
| **Logistic** | **0.549** | **0.238** | **0.238** | **0.781** | **0.27** | **0.25** |
| **Multi Layers** | **0.664** | **0.431** | **0.431** | **0.789** | **0.431** | **0.428** |
| **SMO** | **0.636** | **0.362** | **0.362** | **0.787** | **0.369** | **0.36** |
| **J48** | **0.5** | **0.277** | **0.277** | **0.769** | **0.293** | **0.283** |
| **J48 Binary tree** | **0.45** | **0.185** | **0.185** | **0.719** | **0.186** | **0.185** |

1. **Haralick**
2. **Feature Selection: CFS (bin =10)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.516** | **0.3** | **0.3** | **0.712** | **0.324** | **0.293** |
| **Bay Net** | **0.57** | **0.292** | **0.292** | **0.756** | **0.295** | **0.292** |
| **Naïve Base** | **0.558** | **0.292** | **0.292** | **0.741** | **0.273** | **0.28** |
| **SVM** | **0.5** | **0.338** | **0.338** | **0.762** | **0.115** | **0.171** |
| **Logistic** | **0.517** | **0.254** | **0.254** | **0.785** | **0.283** | **0.265** |
| **Multi Layers** | **0.541** | **0.323** | **0.323** | **0.733** | **0.323** | **0.315** |
| **SMO** | **0.548** | **0.277** | **0.277** | **0.728** | **0.266** | **0.266** |
| **J48** | **0.49** | **0.292** | **0.292** | **0.734** | **0.275** | **0.279** |
| **J48 Binary tree** | **0.548** | **0.323** | **0.323** | **0.766** | **0.318** | **0.317** |

1. **Feature Selection: CFS (bin =5)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.528** | **0.338** | **0.338** | **0.734** | **0.331** | **0.319** |
| **Bay Net** | **0.591** | **0.346** | **0.346** | **0.783** | **0.368** | **0.347** |
| **Naïve Base** | **0.586** | **0.346** | **0.346** | **0.773** | **0.358** | **0.34** |
| **SVM** | **0.475** | **0.292** | **0.292** | **0.658** | **o.177** | **0.215** |
| **Logistic** | **0.544** | **0.315** | **0.315** | **0.784** | **0.323** | **0.317** |
| **Multi Layers** | **0.572** | **0.323** | **0.323** | **0.778** | **0.328** | **0.324** |
| **SMO** | **0.537** | **0.308** | **0.308** | **0.742** | **0.302** | **0.301** |
| **J48** | **0.569** | **0.362** | **0.362** | **0.754** | **0.308** | **0.329** |
| **J48 Binary tree** | **0.53** | **0.292** | **0.292** | **0.745** | **0.273** | **0.281** |

1. **LBP**
2. **Feature Selection: CFS (bin =10)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.794** | **0.523** | **0.523** | **0.788** | **0.569** | **0.493** |
| **Bay Net** | **0.816** | **0.585** | **0.585** | **0.826** | **0.618** | **0.577** |
| **Naïve Base** | **0.805** | **0.531** | **0.531** | **0.789** | **0.598** | **0.496** |
| **SVM** | **0.5** | **0.338** | **0.338** | **0.762** | **0.115** | **0.171** |
| **Logistic** | **0.739** | **0.408** | **0.408** | **0.839** | **0.431** | **0.413** |
| **Multi Layers** | **0.773** | **0.531** | **0.531** | **0.822** | **0.515** | **0.513** |
| **SMO** | **0.736** | **0.5** | **0.5** | **0.818** | **0.529** | **0.491** |
| **J48** | **0.542** | **0.323** | **0.323** | **0.759** | **0.314** | **0.313** |
| **J48 Binary tree** | **0.527** | **0.277** | **0.277** | **0.77** | **0.296** | **0.283** |

1. **Feature Selection: CFS (bin =5)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Algorithm** | **AUC** | **AC** | **SN** | **SP** | **PR** | **FM** |
| **AODE** | **0.783** | **0.523** | **0.523** | **0.785** | **0.568** | **0.481** |
| **Bay Net** | **0.816** | **0.562** | **0.562** | **0.821** | **0.57** | **0.543** |
| **Naïve Base** | **0.804** | **0.538** | **0.538** | **0.803** | **0.549** | **0.507** |
| **SVM** | **0.519** | **0.362** | **0.362** | **0.676** | **0.269** | **0.226** |
| **Logistic** | **0.766** | **0.492** | **0.492** | **0.843** | **0.501** | **0.495** |
| **Multi Layers** | **0.753** | **0.492** | **0.492** | **0.823** | **0.494** | **0.49** |
| **SMO** | **0.693** | **0.423** | **0.423** | **0.798** | **0.425** | **0.42** |
| **J48** | **0.536** | **0.323** | **0.323** | **0.778** | **0.314** | **0.316** |
| **J48 Binary tree** | **0.579** | **0.377** | **0.377** | **0.796** | **0.387** | **0.381** |