 \*\*\*\* SVM with linear kernel \*\*\*\*

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

Accuracy of train data in SVM: 0.90052

Accuracy of validation data in SVM: 0.8953

Accuracy of test data in SVM: 0.8972

 \*\*\*\* Radial Bias SVM with gamma = 1 \*\*\*\*

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

Accuracy of train data in SVM: 0.90154

Accuracy of validation data in SVM: 0.9

Accuracy of test data in SVM: 0.902

 \*\*\*\* Radial Bias SVM with Default Gamma setting \*\*\*\*

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

Accuracy of train data in SVM: 0.89866

Accuracy of validation data in SVM: 0.8963

Accuracy of test data in SVM: 0.8978

 \*\*\*\* Radial Bias SVM with varying C values \*\*\*\*

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

^[[A^[[BC value: 1

Accuracy of train data in SVM: 0.89866

Accuracy of validation data in SVM: 0.8963

Accuracy of test data in SVM: 0.8978

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 10

Accuracy of train data in SVM: 0.90002

Accuracy of validation data in SVM: 0.8973

Accuracy of test data in SVM: 0.8988

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 20

Accuracy of train data in SVM: 0.90048

Accuracy of validation data in SVM: 0.8973

Accuracy of test data in SVM: 0.899

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 30

Accuracy of train data in SVM: 0.90082

Accuracy of validation data in SVM: 0.8972

Accuracy of test data in SVM: 0.8995

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 40

Accuracy of train data in SVM: 0.90094

Accuracy of validation data in SVM: 0.8976

Accuracy of test data in SVM: 0.8996

\*\*\*\* SVM with linear kernel \*\*\*\*

 \*\*\*\* Radial Bias SVM with gamma = 1 \*\*\*\*

 \*\*\*\* Radial Bias SVM with Default Gamma setting \*\*\*\*

 \*\*\*\* Radial Bias SVM with varying C values \*\*\*\*

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 50

Accuracy of train data in SVM: 0.90106

Accuracy of validation data in SVM: 0.8977

Accuracy of test data in SVM: 0.8995

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 60

Accuracy of train data in SVM: 0.90122

Accuracy of validation data in SVM: 0.8978

Accuracy of test data in SVM: 0.8995

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 70

Accuracy of train data in SVM: 0.9013

Accuracy of validation data in SVM: 0.8978

Accuracy of test data in SVM: 0.8995

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 80

Accuracy of train data in SVM: 0.90136

Accuracy of validation data in SVM: 0.8979

Accuracy of test data in SVM: 0.8996

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 90

Accuracy of train data in SVM: 0.9014

Accuracy of validation data in SVM: 0.8979

Accuracy of test data in SVM: 0.8995

/util/python/lib/python3.4/site-packages/sklearn/svm/base.py:472: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples, ), for example using ravel().

  y\_ = column\_or\_1d(y, warn=True)

C value: 100

Accuracy of train data in SVM: 0.90144

Accuracy of validation data in SVM: 0.8976

Accuracy of test data in SVM: 0.8995

--------------Multimomial Logistic Regression-------------------

-0.1

-0.1

-0.111478801185

-0.170643918767

-0.397255320936

-0.427776538785

-0.510091508042

-0.515998727157

-0.532046095312

-0.538015591404

-0.560224687003

-0.620804426695

-0.632038019963

-0.670112779098

-0.709263086115

-0.7139713668

-0.730259659239

-0.750030279812

-0.75212936265

-0.759882697112

-0.781280686414

-0.782999133368

-0.789345650805

-0.80630250196

-0.807021509629

-0.809709647675

-0.817796936171

-0.818327757456

-0.820361404801

-0.827128349473

-0.83225875053

-0.833032976467

-0.835941634535

-0.844779952861

-0.845053403012

-0.846097093575

-0.849506909878

-0.852077385489

-0.852243803411

-0.852855118647

-0.854433408805

-0.854500746063

-0.854758193997

-0.855598692695

-0.856360742175

-0.856475946233

-0.856905614093

-0.858122291188

-0.858416560981

-0.858590774282

-0.859220052582

-0.860629793362

-0.860781645156

-0.861296468264

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-0.863258907691

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-0.863257660628

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-0.863258924462

-0.863258924563

-0.86325892459

-0.863258924597

-0.863258924599

 Training set Accuracy:71.856%

 Validation set Accuracy:73.37%

 Testing set Accuracy:73.95%

metallica {~/SVM and Logistic Regression} > packet\_write\_wait: Connection to 128.205.36.24 port 22: Broken pipe

Muthuvels-MBP:~ muthuvel$