Feature Descriptor: Gabor

1. Feature Selection: CFS

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.445	0.427	0.427	0.428	0.428	0.428	0
J48 binary tree	0.581	0.565	0.565	0.564	0.565	0.565	0
AODE	0.765	0.702	0.702	0.714	0.729	0.696	0
Bayes network	0.809	0.74	0.74	0.749	0.758	0.738	0
Naïve bay	0.802	0.725	0.725	0.735	0.746	0.721	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0
Logistic	0.79	0.702	0.702	0.702	0.702	0.702	0.22
SMO	0.733	0.733	0.733	0.733	0.733	0.733	0.05
Muti layer	0.774	0.74	0.74	0.74	0.74	0.74	20.59

2. Feature Selection: Chi-Square

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.428	0.45	0.45	0.453	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.429	0.458	0.458	0.459	0.459	0.458	12.16
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.428	0.45	0.45	0.453	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.09
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.11
Logistic	0.429	0.458	0.458	0.459	0.459	0.458	13.27
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.428	0.45	0.45	0.453	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.429	0.458	0.458	0.459	0.459	0.458	12.16
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=40

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.428	0.45	0.45	0.453	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.429	0.458	0.458	0.459	0.459	0.458	12.16
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=50

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.428	0.45	0.45	0.453	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.429	0.458	0.458	0.459	0.459	0.458	12.16
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=60

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.428	0.45	0.45	0.453	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.429	0.458	0.458	0.459	0.459	0.458	11.66
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

3. Feature Selection: Gain Ratio

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.431	0.45	0.45	0.452	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.431	0.458	0.458	0.459	0.459	0.458	12.82
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.431	0.45	0.45	0.452	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.1
Logistic	0.431	0.458	0.458	0.459	0.459	0.458	12.41
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.431	0.45	0.45	0.452	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.431	0.458	0.458	0.459	0.459	0.458	12.82
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=40

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.431	0.45	0.45	0.452	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.431	0.458	0.458	0.459	0.459	0.458	12.82
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=50

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.431	0.45	0.45	0.452	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.431	0.458	0.458	0.459	0.459	0.458	12.82
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

K=60

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.431	0.45	0.45	0.452	0.452	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.04
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.431	0.458	0.458	0.459	0.459	0.458	11.47
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.05
Muti layer							

4. Feature Selection: Information Gain

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.37	0.397	0.397	0.4	0.398	0.396	0
J48 binary tree	0.441	0.458	0.458	0.462	0.46	0.457	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.13
Logistic	0.428	0.458	0.458	0.459	0.459	0.458	13.71
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.37	0.397	0.397	0.4	0.398	0.396	0
J48 binary tree	0.441	0.458	0.458	0.462	0.46	0.457	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.07
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.13
Logistic	0.428	0.458	0.458	0.459	0.459	0.458	13.32
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.37	0.397	0.397	0.4	0.398	0.396	0
J48 binary tree	0.441	0.458	0.458	0.462	0.46	0.457	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.13
Logistic	0.428	0.458	0.458	0.459	0.459	0.458	13.71
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=40

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.37	0.397	0.397	0.4	0.398	0.396	0
J48 binary tree	0.441	0.458	0.458	0.462	0.46	0.457	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.13
Logistic	0.428	0.458	0.458	0.459	0.459	0.458	13.71
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=50

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.37	0.397	0.397	0.4	0.398	0.396	0
J48 binary tree	0.441	0.458	0.458	0.462	0.46	0.457	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.13
Logistic	0.428	0.458	0.458	0.459	0.459	0.458	13.71
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=60

Algorithm	AUC	AC	SN	SP	PR	FM	TIME

J48	0.37	0.397	0.397	0.4	0.398	0.396	0
J48 binary tree	0.441	0.458	0.458	0.462	0.46	0.457	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.13
Logistic	0.428	0.458	0.458	0.459	0.459	0.458	13.71
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

5. Feature Selection: Relief

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.451	0.45	0.45	0.448	0.45	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.43	0.458	0.458	0.459	0.459	0.458	11.76
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.451	0.45	0.45	0.448	0.45	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.43	0.458	0.458	0.459	0.459	0.458	11.76
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.451	0.45	0.45	0.448	0.45	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.43	0.458	0.458	0.459	0.459	0.458	11.76
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=40

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.451	0.45	0.45	0.448	0.45	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.43	0.458	0.458	0.459	0.459	0.458	11.09
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=50

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.451	0.45	0.45	0.448	0.45	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.43	0.458	0.458	0.459	0.459	0.458	11.76
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							

K=60

Algorithm	AUC	AC	SN	SP	PR	FM	TIME

J48	0.366	0.389	0.389	0.392	0.391	0.388	0
J48 binary tree	0.451	0.45	0.45	0.448	0.45	0.45	0
AODE	0.506	0.489	0.489	0.5	0.495	0.476	0.06
Bayes network	0.54	0.58	0.58	0.502	0.597	0.57	0
Naïve bay	0.537	0.588	0.588	0.602	0.611	0.574	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.08
Logistic	0.43	0.458	0.458	0.459	0.459	0.458	11.76
SMO	0.466	0.466	0.466	0.466	0.466	0.466	0.22
Muti layer							