Feature Descriptor: LBP_hf

1. Feature Selection: CFS

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.607	0.58	0.58	0.589	0.59	0.575	0
J48 binary tree	0.66	0.595	0.595	0.591	0.595	0.594	0
AODE	0.686	0.626	0.626	0.635	0.639	0.621	0
Bayes network	0.735	0.641	0.641	0.65	0.655	0.637	0
Naïve bay	0.729	0.641	0.641	0.65	0.655	0.637	0
SVM	0.593	0.603	0.603	0.582	0.632	0.569	0
Logistic	0.669	0.611	0.611	0.61	0.611	0.611	0
SMO	0.625	0.626	0.626	0.624	0.626	0.626	0
Muti layer	0.688	0.656	0.656	0.655	0.656	0.656	3.66

2. Feature Selection: Chi-Square

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.589	0.573	0.573	0.567	0.572	0.57	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.25
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.589	0.573	0.573	0.567	0.572	0.57	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.589	0.573	0.573	0.567	0.572	0.57	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.24
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=39

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.589	0.573	0.573	0.567	0.572	0.57	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

3. Feature Selection: Gain Ratio

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.549	0.534	0.534	0.528	0.533	0.531	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.02
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.22
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03

Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.549	0.534	0.534	0.528	0.533	0.531	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.549	0.534	0.534	0.528	0.533	0.531	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=39

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.549	0.534	0.534	0.528	0.533	0.531	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03

Muti layer							

4. Feature Selection: Information Gain

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.566	0.55	0.55	0.543	0.548	0.546	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.566	0.55	0.55	0.543	0.548	0.546	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.566	0.55	0.55	0.543	0.548	0.546	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03

Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=39

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.539	0.55	0.55	0.556	0.555	0.547	0
J48 binary tree	0.566	0.55	0.55	0.543	0.548	0.546	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

5. Feature Selection: Relief

K=10

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.569	0.565	0.565	0.57	0.57	0.563	0
J48 binary tree	0.594	0.55	0.55	0.541	0.548	0.543	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=20

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.569	0.565	0.565	0.57	0.57	0.563	0
J48 binary tree	0.594	0.55	0.55	0.541	0.548	0.543	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0

Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=30

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.569	0.565	0.565	0.57	0.57	0.563	0
J48 binary tree	0.594	0.55	0.55	0.541	0.548	0.543	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.26
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							

K=39

Algorithm	AUC	AC	SN	SP	PR	FM	TIME
J48	0.569	0.565	0.565	0.57	0.57	0.563	0
J48 binary tree	0.594	0.55	0.55	0.541	0.548	0.543	0
AODE	0.605	0.55	0.55	0.558	0.558	0.544	0
Bayes network	0.585	0.557	0.557	0.569	0.571	0.547	0
Naïve bay	0.585	0.534	0.534	0.546	0.546	0.523	0
SVM	0.5	0.519	0.519	0.481	0.269	0.355	0.03
Logistic	0.59	0.588	0.588	0.589	0.589	0.588	0.25
SMO	0.566	0.565	0.565	0.567	0.567	0.565	0.03
Muti layer							