

1-NN				3-NN								5-NN									
ER+	ER-	k_{ER+}^{train}		PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC	PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC	PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC
5	5	0.5		0.78 (0.09)	0.81 (0.14)	0.75 (0.15)	0.78 (0.1)	0.81 (0.11)	0.78 (0.09)	0.79 (0.09)	0.82 (0.14)	0.75 (0.15)	0.78 (0.1)	0.82 (0.11)	0.82 (0.09)	0.78 (0.09)	0.81 (0.14)	0.76 (0.16)	0.78 (0.1)	0.81 (0.11)	0.84 (0.09)
10		0.67		0.76 (0.09)	0.92 (0.07)	0.61 (0.18)	0.83 (0.07)	0.8 (0.14)	0.77 (0.09)	0.77 (0.09)	0.93 (0.07)	0.6 (0.19)	0.83 (0.07)	0.83 (0.14)	0.82 (0.09)	0.76 (0.1)	0.94 (0.06)	0.58 (0.2)	0.82 (0.07)	0.84 (0.14)	0.84 (0.08)
20		0.8		0.72 (0.09)	0.95 (0.05)	0.49 (0.19)	0.88 (0.04)	0.78 (0.21)	0.73 (0.09)	0.71 (0.09)	0.97 (0.04)	0.45 (0.19)	0.88 (0.04)	0.83 (0.21)	0.8 (0.09)	0.69 (0.09)	0.97 (0.04)	0.4 (0.19)	0.87 (0.04)	0.84 (0.22)	0.82 (0.08)
30		0.86		0.68 (0.09)	0.97 (0.04)	0.4 (0.19)	0.91 (0.03)	0.78 (0.26)	0.69 (0.09)	0.66 (0.09)	0.98 (0.03)	0.34 (0.18)	0.9 (0.02)	0.85 (0.25)	0.76 (0.09)	0.63 (0.08)	0.99 (0.03)	0.28 (0.17)	0.89 (0.02)	0.88 (0.24)	0.79 (0.09)
45		0.9		0.66 (0.09)	0.98 (0.03)	0.33 (0.18)	0.93 (0.02)	0.79 (0.3)	0.66 (0.08)	0.62 (0.08)	0.99 (0.03)	0.26 (0.16)	0.92 (0.02)	0.88 (0.25)	0.73 (0.09)	0.59 (0.07)	0.99 (0.02)	0.2 (0.15)	0.92 (0.01)	NaN (NA)	0.76 (0.09)
10	10	0.5		0.82 (0.07)	0.83 (0.11)	0.8 (0.1)	0.82 (0.07)	0.84 (0.09)	0.82 (0.07)	0.84 (0.06)	0.86 (0.09)	0.81 (0.13)	0.83 (0.05)	0.86 (0.11)	0.88 (0.05)	0.84 (0.06)	0.87 (0.09)	0.82 (0.09)	0.83 (0.06)	0.87 (0.08)	0.89 (0.05)
20		0.67		0.82 (0.07)	0.9 (0.05)	0.74 (0.13)	0.88 (0.05)	0.81 (0.12)	0.82 (0.07)	0.84 (0.06)	0.93 (0.06)	0.74 (0.13)	0.88 (0.05)	0.85 (0.11)	0.87 (0.05)	0.84 (0.07)	0.93 (0.06)	0.74 (0.13)	0.88 (0.05)	0.86 (0.11)	0.89 (0.05)
30		0.75		0.8 (0.06)	0.93 (0.06)	0.68 (0.14)	0.9 (0.04)	0.79 (0.14)	0.8 (0.07)	0.82 (0.07)	0.95 (0.05)	0.68 (0.15)	0.9 (0.04)	0.85 (0.14)	0.87 (0.05)	0.81 (0.07)	0.96 (0.05)	0.67 (0.15)	0.9 (0.04)	0.86 (0.13)	0.88 (0.04)
45		0.82		0.78 (0.07)	0.95 (0.05)	0.62 (0.14)	0.92 (0.03)	0.76 (0.18)	0.78 (0.07)	0.79 (0.07)	0.97 (0.04)	0.6 (0.15)	0.92 (0.03)	0.84 (0.17)	0.86 (0.06)	0.77 (0.08)	0.97 (0.04)	0.57 (0.15)	0.91 (0.03)	0.86 (0.17)	0.88 (0.05)

DLDA				DQDA								RF									
ER+	ER-	k_{ER+}^{train}		PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC	PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC	PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC
5	5	0.5		0.74 (0.09)	0.79 (0.14)	0.69 (0.16)	0.73 (0.1)	0.78 (0.12)	0.81 (0.1)	0.72 (0.1)	0.77 (0.18)	0.68 (0.18)	0.72 (0.11)	0.77 (0.13)	0.79 (0.1)	0.75 (0.09)	0.79 (0.14)	0.7 (0.15)	0.74 (0.1)	0.78 (0.11)	0.82 (0.09)
10		0.67		0.74 (0.09)	0.91 (0.07)	0.56 (0.17)	0.81 (0.06)	0.78 (0.15)	0.84 (0.08)	0.72 (0.09)	0.92 (0.08)	0.52 (0.18)	0.8 (0.06)	0.8 (0.17)	0.83 (0.08)	0.7 (0.09)	0.94 (0.06)	0.46 (0.18)	0.78 (0.06)	0.81 (0.16)	0.85 (0.08)
20		0.8		0.72 (0.08)	0.94 (0.06)	0.51 (0.16)	0.89 (0.03)	0.74 (0.21)	0.86 (0.06)	0.73 (0.08)	0.93 (0.07)	0.54 (0.17)	0.89 (0.03)	0.72 (0.21)	0.86 (0.08)	0.64 (0.08)	0.97 (0.04)	0.3 (0.17)	0.85 (0.03)	0.81 (0.26)	0.87 (0.06)
30		0.86		0.71 (0.08)	0.95 (0.05)	0.46 (0.15)	0.91 (0.02)	0.7 (0.25)	0.87 (0.06)	0.6 (0.08)	0.98 (0.03)	0.53 (0.16)	0.92 (0.02)	0.88 (0.24)	0.86 (0.07)	0.6 (0.08)	0.98 (0.03)	0.23 (0.16)	0.88 (0.02)	0.81 (0.3)	0.87 (0.06)
45		0.9		0.7 (0.07)	0.96 (0.05)	0.44 (0.16)	0.94 (0.02)	0.69 (0.3)	0.88 (0.05)	0.74 (0.08)	0.95 (0.05)	0.53 (0.15)	0.95 (0.02)	0.66 (0.29)	0.88 (0.06)	0.58 (0.07)	0.99 (0.02)	0.18 (0.14)	0.92 (0.01)	NaN (NA)	0.87 (0.05)
10	10	0.5		0.82 (0.06)	0.84 (0.1)	0.79 (0.12)	0.81 (0.07)	0.84 (0.08)	0.88 (0.05)	0.82 (0.06)	0.84 (0.12)	0.79 (0.11)	0.81 (0.08)	0.85 (0.09)	0.88 (0.06)	0.81 (0.07)	0.84 (0.11)	0.79 (0.1)	0.8 (0.07)	0.84 (0.09)	0.88 (0.05)
20		0.67		0.83 (0.06)	0.89 (0.08)	0.76 (0.11)	0.88 (0.04)	0.8 (0.12)	0.89 (0.05)	0.84 (0.06)	0.89 (0.08)	0.78 (0.1)	0.89 (0.04)	0.8 (0.11)	0.9 (0.05)	0.81 (0.07)	0.93 (0.06)	0.7 (0.14)	0.86 (0.05)	0.84 (0.11)	0.9 (0.05)
30		0.75		0.83 (0.06)	0.92 (0.06)	0.74 (0.11)	0.91 (0.03)	0.77 (0.14)	0.9 (0.04)	0.84 (0.05)	0.91 (0.07)	0.77 (0.1)	0.92 (0.03)	0.77 (0.14)	0.91 (0.04)	0.79 (0.07)	0.95 (0.05)	0.64 (0.14)	0.89 (0.04)	0.83 (0.15)	0.91 (0.04)
45		0.82		0.82 (0.06)	0.93 (0.06)	0.71 (0.12)	0.94 (0.02)	0.72 (0.17)	0.91 (0.04)	0.84 (0.05)	0.92 (0.06)	0.77 (0.1)	0.95 (0.02)	0.72 (0.17)	0.92 (0.04)	0.76 (0.06)	0.96 (0.04)	0.55 (0.13)	0.91 (0.02)	0.81 (0.18)	0.91 (0.04)

SVM				PAM								PLR									
ER+	ER-	k_{ER+}^{train}		PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC	PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC	PA	PA _{ER+}	PA _{ER-}	PV _{ER+}	PV _{ER-}	AUC
5	5	0.5		0.79 (0.09)	0.82 (0.14)	0.75 (0.15)	0.78 (0.1)	0.82 (0.11)	0.86 (0.08)	0.72 (0.12)	0.72 (0.17)	0.72 (0.2)	0.74 (0.14)	0.73 (0.13)	0.78 (0.13)	0.79 (0.09)	0.82 (0.14)	0.76 (0.15)	0.78 (0.1)	0.82 (0.11)	0.86 (0.09)
10		0.67		0.79 (0.09)	0.91 (0.08)	0.66 (0.17)	0.85 (0.06)	0.81 (0.14)	0.87 (0.07)	0.76 (0.1)	0.92 (0.08)	0.6 (0.22)	0.83 (0.08)	0.82 (0.16)	0.84 (0.09)	0.77 (0.09)	0.94 (0.06)	0.59 (0.19)	0.83 (0.06)	0.84 (0.14)	0.87 (0.07)
20		0.8		0.77 (0.09)	0.94 (0.06)	0.6 (0.18)	0.91 (0.04)	0.76 (0.19)	0.89 (0.06)	0.77 (0.1)	0.94 (0.06)	0.6 (0.21)	0.91 (0.04)	0.77 (0.19)	0.88 (0.07)	0.71 (0.09)	0.97 (0.04)	0.46 (0.19)	0.88 (0.04)	0.82 (0.21)	0.88 (0.06)
30		0.86		0.74 (0.08)	0.95 (0.06)	0.53 (0.17)	0.93 (0.03)	0.72 (0.24)	0.88 (0.05)	0.75 (0.09)	0.94 (0.06)	0.56 (0.18)	0.93 (0.03)	0.72 (0.24)	0.88 (0.06)	0.67 (0.09)	0.98 (0.04)	0.37 (0.18)	0.9 (0.02)	0.82 (0.25)	0.88 (0.06)
45		0.9		0.73 (0.08)	0.96 (0.05)	0.49 (0.17)	0.94 (0.02)	0.69 (0.29)	0.88 (0.05)	0.74 (0.08)	0.95 (0.03)	0.53 (0.18)	0.95 (0.02)	0.69 (0.28)	0.89 (0.05)	0.64 (0.08)	0.98 (0.03)	0.3 (0.16)	0.93 (0.02)	0.85 (0.28)	0.89 (0.05)
10	10	0.5		0.84 (0.05)	0.87 (0.09)	0.82 (0.09)	0.83 (0.06)	0.87 (0.08)	0.91 (0.04)	0.83 (0.06)	0.83 (0.11)	0.83 (0.1)	0.83 (0.07)	0.84 (0.09)	0.89 (0.06)	0.84 (0.06)	0.85 (0.1)	0.82 (0.09)	0.82 (0.09)	0.86 (0.08)	0.9 (0.04)
20		0.67		0.85 (0.05)	0.9 (0.07)	0.81 (0.09)	0.91 (0.04)	0.82 (0.11)	0.91 (0.05)	0.85 (0.06)	0.9 (0.07)	0.81 (0.11)	0.91 (0.04)	0.82 (0.11)	0.88 (0.05)	0.84 (0.06)	0.92 (0.07)	0.75 (0.12)	0.88 (0.05)	0.84 (0.11)	0.9 (0.04)
30		0.75		0.85 (0.05)	0.92 (0.06)	0.79 (0.11)	0.93 (0.03)	0.79 (0.13)	0.91 (0.04)	0.85 (0.06)	0.91 (0.07)	0.79 (0.1)	0.93 (0.03)	0.78 (0.14)	0.91 (0.05)	0.82 (0.06)	0.95 (0.07)	0.69 (0.12)	0.9 (0.05)	0.83 (0.11)	0.91 (0.04)
45		0.82		0.85 (0.05)	0.93 (0.06)	0.77 (0.1)	0.95 (0.02)	0.74 (0.17)	0.91 (0.04)	0.85 (0.06)	0.93 (0.06)	0.78 (0.11)	0.95 (0.02)	0.74 (0.17)	0.92 (0.04)	0.79 (0.07)	0.96 (0.04)	0.61 (0.13)	0.92 (0.03)	0.82 (0.18)	0.91 (0.04)

Table 1: Predictive accuracy (PA), ER+ PA (PA_{ER+}), ER- PA (PA_{ER-}), predictive values for class ER+ and ER- (PV_{ER+} , PV_{ER-}) and area under the ROC curve (AUC) for different proportions of ER+ samples in the training set (k_{ER+}^{train}). Test set was balanced and contained 20 samples from each class.