
**Raw results for the EarlyOpt.GP method proposed in
the paper titled “Early classification of time series
from a cost minimization point of view”.**

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In this document, we provide the raw results for earliness and accuracy for the EarlyOpt.GP method, for different values of α .

Table 1: Accuracy values for EarlyOpt.GP method for different values of α

Dataset	$\alpha = 0.1$	$\alpha = 0.2$	$\alpha = 0.3$	$\alpha = 0.4$	$\alpha = 0.5$	$\alpha = 0.6$	$\alpha = 0.7$	$\alpha = 0.8$	$\alpha = 0.9$
50words	0.31	0.31	0.33	0.33	0.49	0.52	0.63	0.62	0.65
Adiac	0.32	0.32	0.32	0.34	0.50	0.54	0.54	0.57	0.63
Beef	0.37	0.37	0.37	0.37	0.37	0.53	0.53	0.50	0.50
CBF	0.47	0.47	0.47	0.47	0.89	0.89	0.90	0.89	0.87
ChlorineConcentration	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.58	0.64
CinC_ECG_torso	0.40	0.40	0.40	0.40	0.40	0.63	0.82	0.82	0.81
Coffee	0.39	0.39	0.39	0.39	0.39	0.46	0.46	0.93	0.93
Cricket_X	0.13	0.13	0.13	0.55	0.59	0.61	0.61	0.61	0.62
Cricket_Y	0.19	0.19	0.41	0.57	0.62	0.64	0.65	0.70	0.71
Cricket_Z	0.14	0.14	0.14	0.53	0.61	0.64	0.59	0.65	0.64
DiatomSizeReduction	0.73	0.73	0.73	0.73	0.89	0.85	0.89	0.89	0.87
ECG200	0.82	0.82	0.82	0.82	0.82	0.85	0.84	0.86	0.88
ECGFiveDays	0.60	0.61	0.61	0.62	0.62	0.62	0.62	0.62	0.67
FaceAll	0.51	0.58	0.71	0.76	0.83	0.84	0.84	0.86	0.88
FaceFour	0.36	0.36	0.36	0.36	0.90	0.91	0.90	0.91	0.91
FacesUCR	0.40	0.40	0.41	0.47	0.71	0.70	0.72	0.73	0.78
fh	0.42	0.42	0.42	0.58	0.68	0.79	0.87	0.86	0.87
Gun_Point	0.67	0.67	0.75	0.84	0.89	0.89	0.89	0.91	0.95
Haptics	0.37	0.37	0.37	0.36	0.37	0.36	0.41	0.45	0.47
InlineSkate	0.24	0.24	0.24	0.26	0.25	0.28	0.28	0.28	0.29
ItalyPowerDemand	0.70	0.72	0.72	0.72	0.72	0.72	0.82	0.88	0.90
Lighting2	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Lighting7	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15
MALLAT	0.41	0.48	0.47	0.49	0.64	0.80	0.80	0.80	0.93
MedicalImages	0.68	0.68	0.71	0.73	0.74	0.73	0.73	0.74	0.74
MoteStrain	0.74	0.74	0.78	0.78	0.78	0.78	0.78	0.78	0.78
OliveOil	0.43	0.43	0.43	0.40	0.60	0.60	0.63	0.63	0.70
OSULeaf	0.42	0.41	0.45	0.46	0.47	0.47	0.46	0.50	0.50
SonyAIBORobotSurface	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
SonyAIBORobotSurfaceII	0.69	0.71	0.71	0.71	0.78	0.79	0.78	0.78	0.78
StarLightCurves	0.88	0.88	0.91	0.93	0.93	0.94	0.95	0.95	0.96
SwedhLeaf	0.59	0.63	0.68	0.70	0.73	0.77	0.78	0.85	0.86
Symbols	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.87	0.86
synthetic_control	0.71	0.71	0.72	0.81	0.85	0.85	0.92	0.94	0.95
Trace	0.68	0.68	0.68	0.68	0.68	0.68	0.67	0.80	0.80
TwoLeadECG	0.69	0.69	0.69	0.69	0.69	0.69	0.83	0.83	0.82
Two_Patterns	0.27	0.27	0.27	0.27	0.29	0.57	0.85	0.86	0.87
uWaveGestureLibrary_X	0.27	0.27	0.27	0.58	0.63	0.70	0.73	0.73	0.77
uWaveGestureLibrary_Y	0.29	0.29	0.29	0.36	0.43	0.56	0.62	0.69	0.70
uWaveGestureLibrary_Z	0.31	0.31	0.31	0.39	0.58	0.64	0.71	0.71	0.72
wafer	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98
WordsSynonyms	0.28	0.28	0.30	0.32	0.35	0.37	0.48	0.48	0.60
yoga	0.71	0.73	0.74	0.75	0.74	0.74	0.78	0.78	0.81
NonInvasiveFatalECG_Thorax1	0.79	0.81	0.83	0.85	0.84	0.84	0.86	0.86	0.91
NonInvasiveFatalECG_Thorax2	0.85	0.85	0.86	0.87	0.87	0.87	0.93	0.93	0.94

Table 2: Earliness values for EarlyOpt.GP method for different values of α

Dataset	$\alpha = 0.1$	$\alpha = 0.2$	$\alpha = 0.3$	$\alpha = 0.4$	$\alpha = 0.5$	$\alpha = 0.6$	$\alpha = 0.7$	$\alpha = 0.8$	$\alpha = 0.9$
50words	5.00	5.00	5.79	7.18	16.73	22.15	38.88	39.51	53.38
Adiac	5.00	5.00	5.13	6.41	16.13	18.73	20.43	25.01	56.45
Beef	5.00	5.00	5.00	5.00	5.00	45.83	26.33	44.50	44.00
CBF	6.98	5.03	5.04	5.05	26.71	27.21	26.11	26.29	25.07
ChlorineConcentration	5.00	5.00	5.00	5.00	5.05	5.34	6.88	10.41	34.11
CinC_ECG_torso	5.00	5.00	5.04	6.07	9.41	27.75	40.00	41.32	51.81
Coffee	5.36	5.36	5.36	5.36	5.36	12.32	12.32	46.96	46.96
Cricket_X	5.00	5.00	5.00	24.81	28.82	30.00	30.87	33.82	44.15
Cricket_Y	5.00	5.00	15.65	21.49	24.04	25.37	25.96	36.35	37.97
Cricket_Z	5.00	5.00	5.17	20.67	27.49	27.31	28.24	32.27	31.55
DiatomSizeReduction	5.54	5.57	5.57	5.57	16.63	13.51	19.48	15.34	14.04
ECG200	5.00	5.00	5.00	5.05	5.00	8.25	7.30	10.85	25.60
ECGFiveDays	5.00	5.13	5.21	6.43	6.28	6.42	6.30	6.28	21.77
FaceAll	5.11	6.59	9.96	13.39	21.01	22.51	22.34	26.95	38.02
FaceFour	5.00	5.00	5.00	5.00	20.45	20.17	19.94	19.94	20.17
FacesUCR	5.08	5.12	5.36	8.46	25.68	25.50	28.67	28.84	45.99
fh	5.00	5.00	5.06	11.49	15.06	27.14	36.06	37.74	37.23
Gun_Point	5.00	5.13	9.87	18.20	24.43	25.37	24.43	24.83	25.47
Haptics	5.00	5.00	5.00	5.84	6.31	7.81	16.35	32.68	46.95
InlineSkate	5.00	5.00	5.00	6.98	6.24	23.51	24.81	25.73	34.25
ItalyPowerDemand	5.00	5.24	5.24	6.88	6.04	6.68	23.24	32.19	36.91
Lighting2	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Lighting7	5.00	5.00	5.00	5.00	5.00	5.00	8.22	7.53	7.19
MALLAT	7.13	9.28	8.82	10.23	17.00	34.96	35.37	35.35	84.97
MedicalImages	5.03	5.03	7.36	8.45	9.88	9.10	9.46	9.99	13.53
MoteStrain	6.47	6.12	7.53	7.57	7.60	7.54	7.60	7.76	7.72
OliveOil	5.00	5.00	5.17	5.50	18.33	19.83	21.67	21.83	77.67
OSULeaf	5.00	6.12	7.48	8.78	8.22	9.52	8.88	16.45	15.81
SonyAIBORobotSurface	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
SonyAIBORobotSurfaceII	5.00	5.23	5.25	5.22	13.55	13.68	13.67	13.24	13.24
StarLightCurves	5.02	5.12	6.10	6.76	7.23	8.20	10.13	11.79	14.75
SwedhLeaf	5.00	6.57	8.93	10.10	13.56	17.16	18.46	27.19	27.67
Symbols	5.00	5.00	5.00	5.00	5.00	5.00	5.00	44.12	42.81
synthetic_control	5.03	5.07	5.30	8.27	11.65	12.68	21.47	24.23	30.17
Trace	5.00	5.00	5.10	5.10	5.15	5.05	6.20	36.65	36.00
TwoLeadECG	5.00	5.00	5.00	5.70	5.68	5.47	23.68	23.73	24.64
Two_Patterns	5.00	5.00	5.03	5.40	10.36	42.50	84.56	85.74	89.98
uWaveGestureLibrary_X	5.00	5.00	5.00	23.50	26.91	35.32	39.31	40.73	55.07
uWaveGestureLibrary_Y	5.00	5.00	5.01	10.45	15.32	26.60	35.75	59.43	69.11
uWaveGestureLibrary_Z	5.00	5.00	5.27	9.62	23.50	29.39	40.63	42.64	49.07
wafer	5.00	5.03	5.32	5.32	5.31	5.31	5.31	6.37	6.98
WordsSynonyms	5.00	5.00	6.14	8.08	9.95	13.77	28.77	30.87	69.18
yoga	5.00	5.50	6.09	6.32	6.30	6.31	10.93	10.91	23.70
NonInvasiveFatalECG_Thorax1	5.00	5.21	6.18	6.68	7.52	7.34	9.44	11.17	27.26
NonInvasiveFatalECG_Thorax2	5.01	5.16	5.34	5.73	5.88	5.93	15.40	16.19	20.65