

s\phi rensen	LDL-LCLR	IIS-LDL	BFGS-LDL	AA-kNN	LDLLC	CPNN	LDL-SCL	PT-SVM
alpha	.0362±.0018 (1)	.0577±.0010 (8)	.0392±.0018 (4)	.0412±.0006 (7)	.0382±.0009(3)	.0402±.0007 (6)	.0376±.0008(2)	.0398±.0007 (5)
cdc	.0420±.0021 (1)	.0602±.0006 (8)	.0459±.0019 (5)	.0473±.0007 (7)	.0427±.0010(3)	.0465±.0012 (6)	.0422±.0010(2)	.0445±.0011 (4)
cold	.0560±.0029 (1)	.0708±.0012 (8)	.0596±.0014 (4)	.0643±.0023 (6)	.0585±.0016(2)	.0603±.0023 (5)	.0591±.0012(3)	.0662±.0030 (7)
diau	.0563±.0044 (1)	.0759±.0014 (8)	.0599±.0011 (4)	.0632±.0013 (5)	.0594±.0018(2)	.0634±.0014 (6)	.0596±.0014(3)	.0758±.0034 (7)
dti	.0382±.0030 (1)	.0575±.0035 (8)	.0426±.0021 (4.5)	.0455±.0014 (7)	.0408±.0011 (2)	.0426±.0019 (4.5)	.0416±.0016 (3)	.0446±.0019 (6)
elu	.0402±.0019 (1)	.0602±.0007 (8)	.0419±.0010 (4)	.0455±.0005 (7)	.0415±.0009 (2)	.0425±.0009 (5)	.0417±.0005 (3)	.0438±.0008 (6)
heat	.0579±.0028 (1)	.0765±.0013 (8)	.0608±.0022 (4)	.0634±.0012 (7)	.0596±.0019 (2)	.0615±.0009 (5.5)	.0602±.0014 (3)	.0615±.0010 (5.5)
spo	.0811±.0061 (1)	.0962±.0022 (8)	.0854±.0018 (4)	.0921±.0026 (6)	.0846±.0030 (3)	.0859±.0025 (5)	.0836±.0016 (2)	.0922±.0035 (7)
spo5	.0876±.0051 (1)	.0988±.0031 (8)	.0927±.0018 (5)	.0963±.0026 (7)	.0911±.0035 (2)	.0915±.0031 (3)	.0918±.0032 (4)	.0960±.0034 (6)
spoem	.0745±.0092 (1)	.0925±.0048 (7)	.0880±.0033 (3.5)	.0902±.0026 (6)	.0854±.0026 (2)	.0880±.0028 (3.5)	.0882±.0038 (5)	.0942±.0075 (8)
sjafe	.1186±.0159 (2)	.1535±.0086 (7)	.1305±.0048 (4)	.1291±.0056 (3)	.1501±.0099 (5)	.1556±.0082 (8)	.1148±.0086 (1)	.1532±.0070 (6)
sbu3dfe	.1405±.0069 (1)	.1607±.0031 (7)	.1585±.0018 (4)	.1554±.0024 (3)	.1593±.0052 (5)	.1601±.0028 (6)	.1421±.0035 (2)	.1626±.0035 (8)
natural	.4434±.0312 (1)	.5397±.0039 (7)	.4757±.0056 (3)	.4706±.0008 (2)	.5354±.0076 (6)	.5174±.0097 (5)	.5000±.0064 (4)	.6496±.0175 (8)
movie	.1578±.0077 (1)	.2014±.0035 (7)	.1639±.0033 (2)	.1773±.0048 (4)	.1849±.0058 (5)	.1877±.0067 (6)	.1740±.0033 (3)	.3054±.0178 (8)
human	.1935±.0115 (1)	.2176±.0039 (4)	.2160±.0017 (3)	.2557±.0037 (7)	.2726±.0038 (8)	.2178±.0025 (5)	.2089±.0027 (2)	.2179±.0065 (6)

Squared	LDL-LCLR	IIS-LDL	BFGS-LDL	AA-kNN	LDLLC	CPNN	LDL-SCL	PT-SVM
alpha	.0025±.0003 (1)	.0059±.0002 (8)	.0030±.0005 (4.5)	.0033±.0008 (7)	.0028±.0001(2)	.0031±.0006 (6)	.0029±.0002(3)	.0030±.0006 (4.5)
cdc	.0034±.0007 (1)	.0065±.0007 (8)	.0038±.0008 (4.5)	.0042±.0007 (6)	.0036±.0002(3)	.0045±.0011 (7)	.0035±.0002(2)	.0038±.0004 (4.5)
cold	.0052±.0007 (1)	.0085±.0037 (8)	.0063±.0042 (3.5)	.0071±.0016 (6)	.0060±.0005(2)	.0065±.0038 (5)	.0063±.0006(3.5)	.0076±.0041 (7)
diau	.0059±.0021 (1)	.0099±.0012 (7)	.0068±.0020 (4)	.0077±.0013 (6)	.0066±.0005(2)	.0074±.0014 (5)	.0067±.0004(3)	.0103±.0020 (8)
dti	.0025±.0009 (1)	.0057±.0015 (8)	.0035±.0041 (5)	.0037±.0019 (6.5)	.0030±.0003(2)	.0033±.0042 (4)	.0032±.0004 (3)	.0037±.0055 (6.5)
elu	.0029±.0004 (1)	.0064±.0005 (8)	.0033±.0008 (4)	.0038±.0007 (7)	.0032±.0002(2)	.0033±.0004 (4)	.0033±.0002 (4)	.0035±.0013 (6)
heat	.0059±.0015 (1)	.0100±.0026 (8)	.0065±.0010 (3)	.0071±.0017 (7)	.0064±.0004(2)	.0068±.0018 (5.5)	.0066±.0005 (4)	.0068±.0003 (5.5)
spo	.0117±.0025 (1)	.0158±.0016 (8)	.0129±.0016 (4.5)	.0154±.0021 (7)	.0127±.0009(3)	.0129±.0015 (4.5)	.0123±.0006 (2)	.0150±.0025 (6)
spo5	.0138±.0034 (1)	.0174±.0023 (8)	.0155±.0047 (5)	.0171±.0032 (7)	.0152±.0015(2.5)	.0152±.0057 (2.5)	.0153±.0009 (4)	.0169±.0058 (6)
spoem	.0090±.0042 (1)	.0145±.0074 (7)	.0127±.0067 (3)	.0141±.0037 (6)	.0123±.0011(2)	.0138±.0073 (5)	.0130±.0012 (4)	.0154±.0040 (8)
sjafe	.0216±.0044 (1)	.0362±.0048 (6)	.0278±.0042 (3)	.0286±.0036 (4)	.0349±.0041(5)	.0369±.0039 (8)	.0226±.0029 (2)	.0367±.0047 (7)
sbu3dfe	.0305±.0041 (2)	.0390±.0012 (6)	.0381±.0009 (4)	.0420±.0019 (8)	.0379±.0021(3)	.0385±.0014 (5)	.0302±.0013 (1)	.0410±.0018 (7)

natural	.4913±.0652 (1)	.6461±.0085 (7)	.5377±.0097 (2)	.5411±.0051 (3)	.6324±.0151(6)	.6052±.0174 (5)	.5775±.0094 (4)	.8652±.0380 (8)
movie	.0479±.0090 (1)	.0704±.0056 (7)	.0511±.0038 (2)	.0607±.0058 (3)	.0629±.0036 (4)	.0671±.0079 (6)	.0639±.0043 (5)	.1510±.0128 (8)
human	.0843±.0163 (1)	.1080±.0051 (4)	.1076±.0030 (3)	.1369±.0073 (7)	.1463±.0047 (8)	.1089±.0033 (5)	.0999±.0052 (2)	.1090±.0186 (6)

KL	LDL-LCLR	IIS-LDL	BFGS-LDL	AA-kNN	LDLLC	CPNN	LDL-SCL	PT-SVM
alpha	.0050±.0007 (1)	.0117±.0004 (8)	.0059±.0008 (4)	.0065±.0006 (7)	.0055±.0002 (2)	.0061±.0005 (6)	.0057±.0003 (3)	.0060±.0005 (5)
cdc	.0067±.0014 (1)	.0127±.0005 (8)	.0075±.0007 (4.5)	.0083±.0004 (6)	.0068±.0003 (2)	.0088±.0014 (7)	.0069±.0004 (3)	.0075±.0006 (5.5)
cold	.0104±.0015 (1)	.0167±.0026 (8)	.0123±.0038 (3.5)	.0140±.0027 (6)	.0116±.0006 (2)	.0127±.0033 (5)	.0123±.0008 (3.5)	.0149±.0041 (7)
diau	.0116±.0038 (1)	.0194±.0012 (7)	.0132±.0017 (3.5)	.0151±.0012 (6)	.0127±.0008 (2)	.0145±.0013 (5)	.0132±.0006 (3.5)	.0199±.0024 (8)
dtc	.0050±.0018 (1)	.0113±.0027 (8)	.0067±.0040 (5)	.0073±.0026 (7)	.0058±.0004 (2)	.0065±.0040 (4)	.0062±.0005 (3)	.0071±.0051 (6)
elu	.0058±.0007 (1)	.0125±.0006 (8)	.0064±.0006 (3.5)	.0074±.0005 (7)	.0061±.0003 (2)	.0065±.0006 (5)	.0064±.0003 (3.5)	.0069±.0009 (6)
heat	.0117±.0025 (1)	.0195±.0020 (8)	.0129±.0022 (3.5)	.0140±.0013 (7)	.0126±.0007 (2)	.0133±.0010 (5)	.0129±.0007 (3.5)	.0134±.0006 (6)
spo	.0231±.0050 (1)	.0308±.0022 (8)	.0251±.0020 (4)	.0302±.0036 (7)	.0246±.0018 (3)	.0253±.0028 (5)	.0241±.0010 (2)	.0298±.0041 (6)
spo5	.0268±.0060 (1)	.0338±.0046 (8)	.0298±.0038 (5)	.0334±.0062 (7)	.0286±.0020 (2)	.0293±.0056 (3)	.0296±.0016 (4)	.0326±.0058 (6)
spoem	.0177±.0079 (1)	.0280±.0091 (7)	.0245±.0066 (3)	.0275±.0063 (6)	.0238±.0019 (2)	.0260±.0074 (5)	.0251±.0021 (4)	.0299±.0078 (8)
sjafe	.0433±.0096 (1)	.0744±.0110 (6)	.0559±.0092 (3)	.0579±.0080 (4)	.0718±.0098 (5)	.0760±.0092 (8)	.0443±.0058 (2)	.0750±.0114 (7)
sbu3dfe	.0632±.0088 (2)	.0821±.0027 (5)	.0798±.0022 (3)	.0870±.0045 (7)	.0827±.0023 (6)	.0812±.0031 (4)	.0627±.0028 (1)	.0873±.0044 (8)
natural	.7713±.1808 (1)	.9497±.0249 (6)	.7996±.0224 (2)	.8220±.0070 (3)	.9837±.0265 (7)	.9122±.0608 (5)	.8378±.0217 (4)	1.5136±.1445 (8)
movie	.0931±.0235 (1)	.1371±.0115 (6)	.0986±.0069 (2)	.1177±.0122 (3)	.1267±.0271 (4)	.1324±.0197 (5)	.1943±.0327 (7)	.2838±.0256 (8)
human	.1786±.0541 (1)	.2387±.0138 (4)	.2379±.0094 (3)	.2938±.0212 (7)	.3256±.0130 (8)	.2403±.0099 (6)	.2178±.0171 (2)	.2400±.0190 (5)

Chebyshev	LDL-LCLR	IIS-LDL	BFGS-LDL	AA-kNN	LDLLC	CPNN	LDL-SCL	PT-SVM
alpha	.0131±.0012 (1)	.0205±.0003 (8)	.0135±.0014 (2.5)	.0145±.0005 (7)	.0135±.0004 (2.5)	.0139±.0005 (6)	.0137±.0003 (4)	.0138±.0004 (5)
cdc	.0156±.0016 (1)	.0232±.0004 (8)	.0165±.0014 (4)	.0177±.0004 (7)	.0162±.0004 (3)	.0176±.0005 (6)	.0160±.0004 (2)	.0169±.0006 (5)
cold	.0486±.0020 (1)	.0612±.0017 (8)	.0517±.0021 (4)	.0556±.0022 (6)	.0506±.0014 (2)	.0522±.0017 (5)	.0510±.0011 (3)	.0571±.0031 (7)
diau	.0349±.0031 (1)	.0464±.0006 (7)	.0369±.0012 (3)	.0390±.0014 (5)	.0366±.0012 (2)	.0397±.0007 (6)	.0372±.0011 (4)	.0472±.0016 (8)
dtc	.0335±.0021 (1)	.0497±.0030 (8)	.0368±.0022 (4)	.0393±.0012 (7)	.0352±.0009 (2)	.0369±.0018 (5)	.0360±.0015 (3)	.0389±.0022 (6)
elu	.0160±.0011 (1)	.0243±.0008 (8)	.0166±.0004 (4)	.0175±.0005 (7)	.0164±.0003 (2)	.0166±.0004 (4)	.0166±.0003 (4)	.0171±.0004 (6)
heat	.0409±.0023 (1)	.0530±.0010 (8)	.0428±.0040 (4)	.0444±.0011 (7)	.0423±.0010 (2)	.0434±.0007 (5)	.0425±.0011 (3)	.0435±.0007 (6)
spo	.0569±.0043 (1)	.0662±.0016 (8)	.0581±.0017 (3)	.0645±.0023 (7)	.0585±.0020 (4)	.0590±.0025 (5)	.0578±.0015 (2)	.0636±.0027 (6)

spo5	.0876±.0051 (1)	.0988±.0031 (8)	.0927±.0018 (5)	.0963±.0026 (7)	.0911±.0035 (2)	.0915±.0031 (3)	.0918±.0032 (4)	.0960±.0034 (6)
spoem	.0745±.0092 (1)	.0925±.0048 (7)	.0880±.0033 (3.5)	.0902±.0026 (6)	.0854±.0026 (2)	.0880±.0028 (3.5)	.0882±.0038 (5)	.0942±.0075 (8)
sjaffe	.0935±.0267 (2)	.1221±.0103 (7)	.1040±.0055 (4)	.1034±.0063 (3)	.1180±.0128 (5)	.1231±.0098 (8)	.0890±.0069 (1)	.1199±.0079 (6)
sbu3dfe	.1170±.0067 (1)	.1337±.0029 (6)	.1325±.0022 (5)	.1305±.0025 (3)	.1319±.0064 (4)	.1364±.0029 (7)	.1193±.0036 (2)	.1378±.0027 (8)
natural	.3136±.0377 (1)	.3600±.0071 (6)	.3236±.0060 (4)	.3211±.0010 (3)	.3685±.0122 (7)	.3142±.0106 (2)	.3321±.0101 (5)	.4281±.0161 (8)
movie	.1119±.0052 (1)	.1509±.0044 (7)	.1160±.0038 (2)	.1238±.0043 (3)	.1298±.0049 (5)	.1332±.0046 (6)	.1244±.0028 (4)	.2242±.0071 (8)
human	.0412±.0154 (1)	.0536±.0044 (3)	.0538±.0022 (4)	.0640±.0056 (8)	.0584±.0021 (7)	.0539±.0032 (5)	.0495±.0016 (2)	.0540±.0040 (6)

Intersection	LDL-LCLR	IIS-LDL	BFGS-LDL	AA-kNN	LDLLC	CPNN	LDL-SCL	PT-SVM
alpha	.9638±.0018 (1)	.9423±.0010 (8)	.9608±.0018 (4)	.9588±.0006 (7)	.9618±.0009 (3)	.9598±.0007 (6)	.9620±.0008 (2)	.9602±.0007 (5)
cdc	.9580±.0021 (1)	.9398±.0006 (8)	.9541±.0019 (5)	.9527±.0007 (7)	.9573±.0010 (3)	.9535±.0012 (6)	.9578±.0010 (2)	.9555±.0011 (4)
cold	.9440±.0029 (1)	.9292±.0012 (8)	.9404±.0014 (4)	.9357±.0023 (6)	.9415±.0016 (2)	.9397±.0023 (5)	.9409±.0012 (3)	.9338±.0030 (7)
diau	.9437±.0044 (1)	.9241±.0014 (8)	.9401±.0011 (4)	.9368±.0013 (5)	.9406±.0018 (2)	.9366±.0014 (6)	.9404±.0014 (3)	.9242±.0034 (7)
dtc	.9618±.0030 (1)	.9425±.0035 (8)	.9574±.0021 (4.5)	.9545±.0014 (7)	.9592±.0011 (2)	.9574±.0019 (4.5)	.9584±.0016 (3)	.9554±.0019 (6)
elu	.9598±.0019 (1)	.9398±.0007 (8)	.9581±.0010 (4)	.9545±.0005 (7)	.9585±.0009 (2)	.9575±.0009 (5)	.9583±.0006 (3)	.9562±.0008 (6)
heat	.9421±.0028 (1)	.9235±.0013 (8)	.9392±.0022 (4)	.9366±.0012 (7)	.9404±.0019 (2)	.9385±.0009 (5.5)	.9398±.0014 (3)	.9385±.0010 (5.5)
spo	.9189±.0061 (1)	.9038±.0022 (8)	.9146±.0018 (4)	.9079±.0026 (6)	.9154±.0030 (3)	.9141±.0025 (5)	.9164±.0016 (2)	.9078±.0035 (7)
spo5	.9124±.0051 (1)	.9012±.0031 (8)	.9073±.0018 (5)	.9037±.0026 (7)	.9089±.0035 (2)	.9085±.0031 (3)	.9082±.0032 (4)	.9040±.0034 (6)
spoem	.9255±.0092 (1)	.9075±.0048 (7)	.9120±.0033 (3.5)	.9098±.0026 (6)	.9146±.0026 (2)	.9120±.0028 (3.5)	.9118±.0038 (5)	.9058±.0075 (8)
sjaffe	.8814±.0159 (2)	.8465±.0086 (7)	.8695±.0048 (4)	.8709±.0056 (3)	.8499±.0099 (5)	.8444±.0082 (8)	.8851±.0086 (1)	.8468±.0070 (6)
sbu3dfe	.8595±.0069 (1)	.8393±.0031 (7)	.8415±.0018 (4)	.8446±.0024 (3)	.8407±.0052 (5)	.8399±.0028 (6)	.8579±.0036 (2)	.8374±.0035 (8)
natural	.5566±.0312 (1)	.4603±.0039 (7)	.5243±.0056 (3)	.5294±.0008 (2)	.4646±.0076 (6)	.4826±.0097 (5)	.5004±.0064 (4)	.3504±.0175 (8)
movie	.8422±.0077 (1)	.7986±.0035 (7)	.8361±.0033 (2)	.8227±.0048 (4)	.8151±.0058 (5)	.8123±.0067 (6)	.8260±.0033 (3)	.6946±.0178 (8)
human	.8065±.0115 (1)	.7824±.0039 (4)	.7840±.0017 (3)	.7443±.0037 (7)	.7274±.0038 (8)	.7822±.0025 (5)	.7911±.0023 (2)	.7810±.0100 (6)

Cosine	LDL-LCLR	IIS-LDL	BFGS-LDL	AA-kNN	LDLLC	CPNN	LDL-SCL	PT-SVM
alpha	.9950±.0008 (1)	.9878±.0004 (8)	.9942±.0008 (4.5)	.9937±.0003 (7)	.9945±.0002 (2.5)	.9940±.0004 (6)	.9945±.0002 (2.5)	.9942±.0003 (4.5)
cdc	.9935±.0012 (1)	.9871±.0003 (8)	.9927±.0005 (5)	.9920±.0002 (6)	.9933±.0003 (3)	.9918±.0010 (7)	.9934±.0003 (2)	.9928±.0005 (4)
cold	.9900±.0014 (1)	.9839±.0011 (8)	.9887±.0016 (3)	.9867±.0019 (6)	.9889±.0006 (2)	.9880±.0015 (5)	.9885±.0006 (4)	.9859±.0027 (7)
diau	.9892±.0030 (1)	.9814±.0009 (7.5)	.9879±.0008 (3)	.9862±.0009 (6)	.9881±.0007 (2)	.9866±.0007 (5)	.9878±.0006 (4)	.9814±.0017 (7.5)

dti	.9951±.0016 (1)	.9889±.0022 (8)	.9937±.0017 (5)	.9930±.0012 (7)	.9944±.0003 (2)	.9938±.0017 (4)	.9941±.0004 (3)	.9933±.0018 (6)
elu	.9944±.0006 (1)	.9872±.0005 (8)	.9938±.0003 (3.5)	.9928±.0003 (7)	.9940±.0003 (2)	.9937±.0004 (5)	.9938±.0002 (3.5)	.9933±.0004 (6)
heat	.9888±.0017 (1)	.9810±.0009 (8)	.9876±.0023 (4)	.9866±.0007 (7)	.9880±.0007 (2)	.9873±.0005 (5)	.9878±.0006 (3)	.9872±.0005 (6)
spo	.9779±.0045 (1)	.9707±.0019 (8)	.9766±.0013 (4)	.9717±.0032 (7)	.9768±.0014 (3)	.9763±.0022 (5)	.9774±.0009 (2)	.9720±.0031 (6)
spo5	.9761±.0042 (1)	.9698±.0028 (8)	.9737±.0014 (5)	.9704±.0042 (7)	.9742±.0019 (2)	.9740±.0017 (3.5)	.9740±.0014 (3.5)	.9714±.0028 (6)
spoem	.9839±.0059 (1)	.9761±.0039 (7)	.9789±.0025 (3)	.9763±.0033 (6)	.9795±.0013 (2)	.9783±.0022 (5)	.9785±.0014 (4)	.9740±.0071 (8)
sjaffe	.9587±.0118 (1)	.9299±.0095 (6)	.9470±.0082 (3)	.9444±.0062 (4)	.9325±.0098 (5)	.9282±.0083 (8)	.9583±.0056 (2)	.9291±.0095 (7)
sbu3dfe	.9376±.0076 (2)	.9201±.0024 (6)	.9221±.0019 (4)	.9152±.0035 (8)	.9224±.0044 (3)	.9207±.0026 (5)	.9381±.0027 (1)	.9158±.0035 (7)
natural	.7347±.0476 (1)	.6626±.0094 (6)	.7168±.0082 (2)	.7029±.0036 (4)	.6422±.0078 (7)	.6774±.0080 (5)	.7147±.0090 (3)	.4549±.0243 (8)
movie	.9384±.0101 (1)	.9042±.0050 (7)	.9351±.0036 (2)	.9223±.0063 (4)	.9205±.0049 (5)	.9139±.0077 (6)	.9268±.0024 (3)	.7908±.0151 (8)
human	.8596±.0141 (1)	.8330±.0041 (4)	.8339±.0020 (3)	.7704±.0042 (8)	.7771±.0040 (7)	.8323±.0027 (5)	.8432±.0021 (2)	.8320±.0110 (6)