Table 1: The Scott-Knott ranks (r) on the MRE, and the median and interquartile range of MRE, denoted as Med (IQR), of DaL under different local models and their global counterparts. The green cells denote the one with the best rank over all the approaches.

		DaL	DNN	7	$DaL_{RF}$	-	RF	$DaL_{DT}$		DT	$DaL_{LR}$		LR	Dalsvr		SVR		Dalkrr	K	KRR	Dalenn		KNN
System	Size r	Med (IQR)	r Med	Med (IQR) r	· Med (IQR)	r Me	Med (IQR) r	· Med (IQR)	r M	Med (IQR)	r Med (IQR)	7	Med (IQR)	r Med (IQR)	R)	Med (IQR)	7	Med (IQR)	r Me	Med (IQR)	· Med (IQR)	, (i	Med (IQR)
•	Size 1 1	21.02 (6.64)	2 20.19	20.19 (6.34) 1	1 21.39 (5.01)	3 21.	21.20 (7.72) 2	21.61 (6.69)	2 20	20.85 (12.99)	1 19.71 (6.80)	2	27.72 (4.98)	4 23.30 (4.08)	18) 4	22.67 (3.66)	9	36.95 (3.77)	7 49.5	(14.23)	21.71 (4.97)	) 2	22.09 (3.33)
S)	Size 2 2	9.82 (5.39)	1 9.79 (	9.79 (4.56)	2 10.66 (5.81)	2 12.	12.02 (6.58) 2	10.41 (5.04)	1 10	10.06 (3.05)	3 11.03 (7.55)	ις	17.61 (2.41)	6 17.59 (3.76)	7 (97	20.31 (3.18)	∞	34.87 (4.66)	9 34.7	34.72 (3.83)	13.73 (4.61)	9 (	18.64 (2.56)
APACHE S	Size 3 1	7.17 (2.67)	2 7.98 (1.91)	(1.91) 3	3 7.93 (3.15)	2 7.6	7.65 (1.46) 4	9.10 (1.31)	4 9.	9.03 (1.13)	1 7.42 (2.14)	7	16.16 (1.41)	6 15.92 (2.45)	6 (5)	18.50 (1.54)	10	25.88 (4.60)	11 33.5	33.54 (2.80)	11.60 (1.49)	8	17.30 (1.39)
S)	Size 4 2	6.59 (1.77)	2 6.85 (1.60)	(1.60) 3	3 6.96 (1.32)	2 6.6	6.63 (1.19) 5	7.97 (1.35)	4 7.	7.81 (1.35)	1 6.39 (1.16)	∞	16.12 (0.78)	7 13.89 (2.35)	(5)	18.57 (1.58)	10	22.79 (1.77)	11 32.5	32.31 (1.38)	11.00 (1.44)	8	15.64 (1.46)
<b>v</b> )	Size 5 2	5.96 (2.07)	4 6.66 (1.61)	(1.61) 4	4 6.51 (1.41)	3 6.4	6.43 (1.11) 5	7.63 (1.00)	5 7.	7.71 (1.03)	1 5.75 (0.55)	6	16.12 (1.37)	7 12.63 (1.76)	76) 10	0 17.82 (1.78)	11	21.79 (2.07)	12 32.1	32.11 (1.43)	6 10.45 (1.28)	8	14.75 (1.41)
, v)	Size 1 2	41.77 (32.54)	2 43.66	43.66 (42.88) 2	2 58.22 (37.41)	6 253	253.78 (93.63) 1	47.20 (19.75)	1	36.17 (9.11)	3 65.09 (37.30)		698.12 (713.51)	3 65.38 (22.26)	.26) 4	154.71 (52.45)	5) 2	64.22 (15.94)	7 231	231.74 (136.07)	3 68.32 (34.34)	4) 5	201.51 (70.38)
<b>v</b> )	Size 2 1	17.22 (15.67)	1 18.17	18.17 (8.11)	3 30.69 (29.47)	4 73.	73.41 (118.30) 1	16.81 (8.59)	2 19	19.61 (7.19)	7 49.04 (47.11)	9	545.48 (149.70)	5 70.56 (64.18)	.18) 5	117.87 (49.95)	5) 4	43.14 (41.44)	6 280	280.15 (96.55)	78.59 (42.86)	9 (9:	245.08 (180.15)
BDB-C S	Size 3 2	5.74 (6.84)	5 12.47	12.47 (4.08) 4	4 15.30 (6.90)	4 18.	18.64 (19.42) 3	6.72 (5.82)	1 7.	7.44 (3.70)	6 29.00 (78.81)	6	465.51 (91.79)	8 65.69 (155.89)	5.89) 7	97.22 (52.60)	9	26.43 (70.74)	9 283	283.32 (39.54)	8 58.12 (121.53	53) 9	279.13 (144.62)
<b>v</b> )	Size 4 1	3.68 (2.78)	3 9.06 (9.76)	9.76) 3	3 9.40 (3.63)	4 11.	11.32 (6.77) 1	4.15 (2.78)	2 5.	5.74 (3.97)	5 24.55 (4.18)	6	441.04 (85.57)	6 51.04 (29.64)	.64) 6	93.39 (41.17)	2	23.34 (4.86)	8 295	295.23 (47.23)	6 60.43 (18.64)	7	258.59 (144.43)
5)	Size 5 1	2.15 (1.52)	3 7.08 (8.03)	(8.03) 2	2 6.87 (3.29)	4 6.6	6.64 (3.35) 1	3.24 (3.09)	1 3.	3.32 (2.50)	4 22.88 (3.78)	, 6	456.02 (78.01)	6 46.18 (19.08)	7 (80.	105.14 (56.61	1) 5	22.11 (3.66)	9 316	316.72 (43.94)	56.42 (16.71)	1) 8	178.91 (128.49)
	Size 1 2	3.14 (2.90)	2 2.98 (3.34)	(3.34) 2	2 5.05 (5.05)	3 8.3	8.36 (10.48) 1	2.98 (0.81)	1 3.	3.03 (0.99)	9 5.31 (2.96)	8	43.23 (6.15)	6 22.77 (17.72)	.72) 4	12.93 (3.37)	3	6.42 (9.07)	7 34.5		5 20.31 (7.60)	9 (	24.03 (7.11)
<b>v</b> )	Size 2 4	1.90 (0.37)	3 1.91 (0.68)	(89.0)	1.79 (0.35)	1 1.8	1.82 (0.29) 3		2 1.	, (6.29) (1.99)	4 3.77 (0.49)	10	37.85 (6.27)	8 15.28 (12.28)	.28) 5	10.54 (0.97)	4	3.74 (0.67)	9 32.2	32.28 (6.74)	12.00 (4.59)	7	14.07 (6.61)
BDB-J S	Size 3 2	1.61 (0.31)	3 2.01 (1.10)	(1.10)	1.58 (0.27)	1 1.5	1.57 (0.21) 2	1.92 (0.27)	2 1.1	1.87 (0.35)	3 3.41 (0.46)	∞	37.61 (3.49)	6 15.03 (10.36)	36) 5	11.03 (0.89)	ec	3.32 (0.55)	7 32.5	32.51 (3.83)	9.42 (3.95)	4	9.06 (2.44)
v)	Size 4 2	1.61 (0.29)	4 1.70 (0.37)	(0.37)	1.41 (0.21)	1 1.4	1.43 (0.21) 3	1.67 (0.29)	3 1.	, (98.0) 69.1	4 3.57 (0.66)	6	37.57 (3.48)	8 9.20 (5.36)	()	11.25 (1.35)	2	3.51 (0.58)	9 33.1	33.14 (3.69)	(80.9) (6.08)	9	5.85 (2.05)
<b>v</b> )	Size 5 2	1.46 (0.26)	4 1.69 (0.48)	(0.48)	1.40 (0.28)	1 1.4	1.40 (0.23) 3	1.67 (0.43)	3 1.	1.68 (0.39)	4 3.23 (0.65)	6	37.48 (2.86)	7 8.21 (3.87)	(2	11.51 (2.21)	2	3.19 (0.63)	9 34.1	34.15 (3.03)	3.68 (1.40)	9	3.74 (0.92)
3)	Size 1 1	8.04 (1.30)	1 8.04 (	8.04 (3.06) 3	3 8.72 (2.49)	2 8.1	8.18 (2.78) 3	8.78 (4.06)	3 8.	8.77 (2.89)	4 10.43 (3.40)	ıc.	14.36 (4.34)	5 14.31 (2.24	9 (4)	25.72 (2.91)	8	24.55 (5.85)	6 19.7	19.75 (10.27)	11.81 (1.31)	7	18.40 (1.66)
5)	Size 2 1	3.21 (1.95)	1 3.17 (	3.17 (1.00) 3	3 6.50 (1.18)	3 6.4	6.42 (1.20) 3	6.44 (2.02)	3 6.	6.50 (1.63)	2 3.65 (2.34)	4	8.01 (1.23)	7 9.92 (2.44)	(t	18.83 (5.32)	4	7.53 (3.80)	5 8.35	8.35 (1.40)	9.45 (1.53)	∞	15.63 (2.24)
x264 S	Size 3 1	1.66 (0.57)	2 2.23 (0.90)	(0.90) 5	•	5 4.9	4.95 (0.85) 4		4 4.	4.72 (0.73)	2 3.13 (2.43)	ıs	7.61 (0.76)	6 7.13 (3.03)	6 (8	13.66 (2.32)	ı,	5.10 (1.65)	39'. 2'68	8 (08.0) 69.7	8.95 (1.75)	6	13.83 (3.45)
5)	Size 4 1	1.13 (0.63)	2 1.74 (0.98)	(0.98) 5	5 4.07 (0.75)	6 4.0	4.04 (0.86) 3	3.32 (1.09)	4 3.	3.65 (1.03)	3 2.92 (2.05)	7	7.34 (0.39)	7 5.15 (2.95)	5) 1C	0 10.24 (1.41)	9	3.66 (1.82)	8 7.25	7.29 (0.51)	8.24 (1.51)	11	12.53 (2.12)
5	Size 5 1	0.79 (0.33)	2 1.44 (0.90)		5 2.88 (0.76)	6 2.9	2.98 (0.77) 3	1.97 (0.88)	4 2.	2.37 (1.11)	6 2.74 (2.18)	80	7.17 (0.60)	8 3.62 (3.02)	3) 11	1 9.19 (0.76)	7	3.06 (1.89)	9 7.09	(0.71)	0 7.45 (1.07)	12	11.48 (1.54)
3)	Size 1 1	4.66 (1.32)	8 7.09 (3.04)		6 16.99 (2.70)	5 16.	16.63 (2.10) 7	21.65 (2.31)	7 2.	21.34 (2.41)	2 7.72 (0.80)	11	55.91 (19.98)	4 16.00 (2.48)	18) 5	16.63 (1.38)	3	8.63 (1.15)	10 39.6	39.60 (11.07)	8 26.22 (2.77)	6 (	33.80 (9.19)
<i>S</i> )	Size 2 1	2.66 (0.68)	2 3.69 (0.61)	(0.61) 5	5 11.53 (1.37)	6 11.	11.46 (1.78) 8	15.59 (1.41)	8 16	16.43 (1.52)	2 7.35 (0.47)	10	52.54 (10.70)	7 15.24 (1.32)	32) 8		4	7.43 (0.64)	10 43.2	(9.80)	22.77 (3.64)	6 (1	21.71 (3.19)
HSMGP S	Size 3 1	1.56 (0.20)	2 2.28 (0.37)	(0.37) 4	1.38 (0.56)	5 7.5			7 1.	11.26 (0.98)	2 7.14 (0.35)		51.38 (9.85)	6 10.05 (0.86	6 (98	15.03 (0.66)	ec	7.13 (0.30)				8	14.27 (1.63)
51	Size 4 1	1.49 (0.15)	2 2.23 (0.39)	(0.39) 3		4 6.8	6.88 (0.61) 7	10.13 (0.57)	8 10	10.14 (0.72)	4 7.16 (0.17)	11 4	49.63 (9.43)	6 8.95 (0.90)	) 10	0 15.07 (0.56)	S	7.16 (0.22)	11 45.8		9 12.83 (0.87)	6 (	12.83 (1.15)
3	Size 5 1	1.16 (0.08)	2 1.94 (0.63)	(0.63) 3	3 5.13 (0.25)	3 5.1	5.15 (0.28) 7	7.46 (0.46)	6 7.	7.43 (0.34)	10 7.15 (0.20)	, 6	49.05 (3.00)	4 5.87 (0.52)	3) 8	8.60 (0.38)	2	7.14 (0.21)	10 45.5	45.16 (2.81)	9.36 (0.58)	6	9.26 (0.65)
• • •	Size 1 1	9.07 (1.18)	2 9.70 (1.28)	(1.28) 3	3 11.48 (0.85)	3 11.	11.08 (0.66) 4	12.03 (0.93)	4 12	12.07 (1.06)	9 12.70 (1.22)	8	20.49 (1.61)	5 13.06 (0.51)	7 7	14.84 (0.62)	4	12.17 (0.77)	9 17.5	17.76 (1.12)	6 14.10 (1.22)	8 (;	16.86 (1.22)
	Size 2 1	5.55 (0.60)	2 6.89 (1.44)	(1.44) 5	3 8.37 (0.61)	3 8.4	8.46 (0.70) 3		3 8.	8.20 (1.00)	6 11.64 (0.35)	10	19.67 (0.83)	5 11.27 (0.44)	(4)	14.52 (0.54)	ıs	11.36 (0.31)	8 18.	18.27 (0.65)	11.07 (0.37)	7	16.02 (0.69)
HIPA <sup>cc</sup> S	Size 3 1	4.39 (0.41)	2 4.68 (0.90)	(0.90)	3 6.75 (0.42)	3 6.6	6.69 (0.51) 3		3 6.	6.60 (0.75)	5 11.43 (0.34)	11	19.35 (0.72)	5 10.78 (0.28)	38) 8	14.48 (0.57)	9	11.21 (0.41)	10 18.2	18.80 (0.84)	9.79 (0.41)	6	15.79 (0.66)
<b>y</b> )	Size 4 1	3.22 (0.35)	2 3.58 (1.00)	(1.00)	4.56 (0.33)			•	3 4.	4.31 (0.44) 8	8 11.13 (0.25)		18.97 (0.46)	7 10.31 (0.14)	14) 10	0 12.06 (0.25)	∞	11.03 (0.25)	11 18.	18.34 (0.52)	8.14 (0.36)	2	7.95 (0.32)
9,	Size 5 1	2.39 (0.22)	2 2.82 (0.57)	(0.57)	3 2.71 (0.09)	2 2.6	2.69 (0.13) 2		2 2.	2.70 (0.17)	10 11.01 (0.15)	12	18.81 (0.37)	7 10.04 (0.09)	8 (60		6	10.93 (0.12)	11 18.4	18.48 (0.34)	5.77 (0.37)	9	6.20 (0.59)
<b>y</b> )	Size 1 1	1.59 (0.36)	5 4.68 (3.27)	(3.27) 4	.,	6 3.3	3.32 (0.79) 2			2.47 (0.70)	5 12.72 (0.84)		43.69 (5.81)	9 13.84 (0.76)	76) 10		7	12.48 (0.87)			10 22.76 (2.40)		23.86 (1.87)
9)	Size 2 4	1.21 (0.09)	5 2.39 (1.21)	(1.21)   \$	3 1.41 (0.18)	4 1.4	1.45 (0.16) 1	, .	2 1.	1.30 (0.22)	4 12.42 (0.44)	∞	42.04 (3.16)	6 10.30 (0.49)	11 (61	1 23.53 (1.46)	7	12.26 (0.51)	12 34.5	34.52 (2.16)	20.95 (1.45)	10	21.62 (1.59)
VP8 S	Size 3 1	1.12 (0.08)	2 1.93 (	1.93 (0.72) 2	2 1.15 (0.15)	2 1.1	1.16 (0.16) 2		3 1.	(1.18 (0.21)	5 12.41 (0.34)	11	42.65 (2.99)	5 10.11 (0.56)	6 99	25.02 (1.93)	9	12.28 (0.42)	10 36.	36.18 (2.01)	(1.19)	8	20.46 (1.41)
<b>y</b> ,	Size 4 1	1.10 (0.06)	2 1.54 (	1.54 (0.40) 2	2 1.02 (0.08)	2 1.0			2 1.	1.09 (0.08)	3 12.35 (0.31)	∞	42.08 (2.79)	4 9.81 (0.36)	9 (9	26.13 (1.14)	ec	12.30 (0.32)	7 36.	36.70 (2.24)	20.04 (0.84)	9 (1	19.38 (0.96)
\$3	Size 5 1	1.07 (0.05)	2 1.45 (	1.45 (0.23) 3	3 0.85 (0.03)	4 0.8	0.85 (0.03) 2		3	0.94 (0.05)	6 12.41 (0.27)	12	42.69 (1.94)	7 9.71 (0.21)	1) 1(	0 15.54 (0.77)	2	12.36 (0.23)	11 39.0	39.07 (1.39)	16.69 (0.50)	6 (	16.91 (0.66)
91	Size 1 3	26.40 (6.94)	4 35.40	35.40 (16.59) 2	2 24.25 (11.29)	3 21.	21.71 (7.45) 1		2	23.50 (10.09)	5 117.37 (24.65)	10	369.45 (116.78)	5 59.16 (13.29)	.29) 5	63.04 (23.36)		91.09 (20.87)	9 259	259.82 (85.61)	62.85 (14.79)	.6) 2	57.77 (8.08)
5)	Size 2 3	15.37 (6.04)	4 21.46	21.46 (4.53) 2	2 10.71 (2.06)	2 10.	10.18 (2.12) 1	9.09 (2.56)	2 10	10.47 (4.94)	5 109.11 (20.26)	∞	315.34 (66.07)	6 63.84 (11.18)	.18) 6	61.82 (34.55)	_	92.08 (18.31)	9 266	266.54 (39.81)	49.05 (4.48)	2 2	49.30 (4.05)
LRZIP S	Size 3 3	11.83 (4.53)	4 18.68	18.68 (3.20) 2	2 8.03 (1.01)	1 7.5	7.90 (1.27)	7.77 (2.09)	2 8.	8.62 (4.75)	6 104.20 (17.55)	6	322.55 (50.28)	7 63.91 (13.58)	.58) 6	66.09 (41.44)		92.48 (18.85)	10 276	276.22 (39.10)	46.39 (3.86)	2	46.20 (7.19)
5)	Size 4 3	10.10 (3.23)	4 15.55	15.55 (1.71) 4	4 6.54 (1.58)	7 6.5	6.51 (0.69) 1	6.38 (2.72)	2 7.	7.09 (2.76)	8 103.74 (14.29)	10	323.59 (56.77)	2 65.19 (12.53)	.53) 3	69.07 (5.93)	9	93.27 (11.75)	9 284		5 44.80 (5.06)	8	45.86 (5.10)
\$3	Size 5 3	6.60 (1.34)	4 10.17	10.17 (0.91)	1 3.31 (0.87)		3.67 (1.31) 1	3.58 (0.97)	2 4.	4.47 (1.90)	7 105.83 (7.06)	6	327.20 (27.08)	7 48.80 (2.86)	8 (98	51.27 (2.21)	6	98.66 (7.44)	11 293	293.61 (23.26)	28.71 (3.40)	9 (	30.31 (7.80)
Average	1.625	525	2.775		2.9	3.375		2.95	3.15		4.625	8.575		9	7.	7.475	5.85		9.125		6.25	7.3	10