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>> LS_Regression
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RMSE for Multi Variate Regression: 0.644694, 1.619250
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Goodness of fit for Multi Variate Regression: 93.004032%, 93.902129%
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RMSE for Least Squares Regression: 0.644694, 1.619250
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Goodness of fit for Least Squares Regression: 93.004032%, 93.902129%
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Goodness of fit for Bayesian Least Squares Regression: 100.076891%, 95.067131%
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RMSE for Bayesian Least Squares Regression: 0.685781, 1.711379
```

```
A =
```

```
1.0e-09 *
```

```
0.2812    -0.0118
-0.0118     0.0333
```

```
B =
```

```
1.4979
```

	Mean	Std	CI95	Positive	
Distribution					

Intercept	0	70.7107	[-141.273, 141.273]	0.500	t (0.00, 57.74^2, ✓
6)					
s-EMG1	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG2	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG3	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG4	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG5	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG6	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG7	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG8	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG9	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG10	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG11	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					
s-EMG12	0	2.2361e+05	[-446742.939, 446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)					

Sigma2 | 0.5000 0.5000 [0.138, 1.616] 1.000 IG(3.00, 1)

Method: Analytic posterior distributions

Number of observations: 1350

Number of predictors: 13

Log marginal likelihood: -1163.04

	Mean	Std	CI95	Positive	
Intercept	-0.0059	0.1719	[-0.343, 0.331]	0.486	t (-0.01, 0.17^2, 1.4e+03)
s-EMG1	11375.7264	3073.7696	[5350.315, 17401.138]	1.000	t (11375.73, 3071.50^2, 1.4e+03)
s-EMG2	-18785.7592	3310.6002	[-25275.422, -12296.096]	0.000	t (-18785.76, 3308.16^2, 1.4e+03)
s-EMG3	-10583.7900	1687.1707	[-13891.096, -7276.484]	0.000	t (-10583.79, 1685.93^2, 1.4e+03)
s-EMG4	13579.5235	889.6209	[11835.628, 15323.419]	1.000	t (13579.52, 888.96^2, 1.4e+03)
s-EMG5	4333.1119	1972.1892	[467.093, 8199.131]	0.986	t (4333.11, 1970.73^2, 1.4e+03)
s-EMG6	-63246.4992	15121.2038	[-92888.108, -33604.891]	0.000	t (-63246.50, 15110.05^2, 1.4e+03)
s-EMG7	-1.2909e+05	11493.1749	[-151617.702, -106558.302]	0.000	t (-129088.00, 11484.70^2, 1.4e+03)
s-EMG8	-21522.1052	2652.1109	[-26720.953, -16323.258]	0.000	t (-21522.11, 2650.15^2, 1.4e+03)
s-EMG9	-10493.5065	2016.6539	[-14446.688, -6540.325]	0.000	t (-10493.51, 2015.17^2, 1.4e+03)
s-EMG10	30625.0375	4844.0907	[21129.323, 40120.752]	1.000	t (30625.04, 4840.52^2, 1.4e+03)
s-EMG11	1.2275e+05	56792.4439	[11421.824, 234078.617]	0.985	t (122750.22, 56750.55^2, 1.4e+03)
s-EMG12	91898.6528	4398.1176	[83277.165, 100520.141]	1.000	t (91898.65, 4394.87^2, 1.4e+03)
Sigma2	0.3004	0.0116	[0.279, 0.324]	1.000	IG (678.00, 0.0049)

	Mean	Std	CI95	Positive	
Intercept	-0.0059	0.1719	[-0.343, 0.331]	0.486	t (-0.01, 0.17^2, 1.4e+03)
s-EMG1	11375.7264	3073.7696	[5350.315, 17401.138]	1.000	t (11375.73, 3071.50^2, 1.4e+03)
s-EMG2	-18785.7592	3310.6002	[-25275.422, -12296.096]	0.000	t (-18785.76, 3308.16^2, 1.4e+03)

```
(-18785.76, 3308.16^2,1.4e+03)
s-EMG3 | -10583.7900 1687.1707 [-13891.096, -7276.484] 0.000 t✓
(-10583.79, 1685.93^2,1.4e+03)
s-EMG4 | 13579.5235 889.6209 [11835.628, 15323.419] 1.000 t✓
(13579.52, 888.96^2,1.4e+03)
s-EMG5 | 4333.1119 1972.1892 [467.093, 8199.131] 0.986 t✓
(4333.11, 1970.73^2,1.4e+03)
s-EMG6 | -63246.4992 15121.2038 [-92888.108, -33604.891] 0.000 t✓
(-63246.50, 15110.05^2,1.4e+03)
s-EMG7 | -1.2909e+05 11493.1749 [-151617.702, -106558.302] 0.000 t✓
(-129088.00, 11484.70^2,1.4e+03)
s-EMG8 | -21522.1052 2652.1109 [-26720.953, -16323.258] 0.000 t✓
(-21522.11, 2650.15^2,1.4e+03)
s-EMG9 | -10493.5065 2016.6539 [-14446.688, -6540.325] 0.000 t✓
(-10493.51, 2015.17^2,1.4e+03)
s-EMG10 | 30625.0375 4844.0907 [21129.323, 40120.752] 1.000 t✓
(30625.04, 4840.52^2,1.4e+03)
s-EMG11 | 1.2275e+05 56792.4439 [11421.824, 234078.617] 0.985 t✓
(122750.22, 56750.55^2,1.4e+03)
s-EMG12 | 91898.6528 4398.1176 [83277.165, 100520.141] 1.000 t✓
(91898.65, 4394.87^2,1.4e+03)
Sigma2 | 0.3004 0.0116 [ 0.279, 0.324] 1.000 IG✓
(678.00, 0.0049)
```

Method: Analytic posterior distributions

Number of observations: 1350

Number of predictors: 13

Log marginal likelihood: -2293.69

Distribution	Mean	Std	CI95	Positive	
Intercept	-1.0256	0.3957	[-1.801, -0.250]	0.005	t✓
(-1.03, 0.40^2,1.4e+03)					
s-EMG1	14787.8233	7076.0703	[916.831, 28658.816]	0.982	t✓
(14787.82, 7070.85^2,1.4e+03)					
s-EMG2	-61227.9603	7621.2738	[-76167.698, -46288.223]	0.000	t✓
(-61227.96, 7615.65^2,1.4e+03)					
s-EMG3	82738.8104	3884.0057	[75125.119, 90352.502]	1.000	t✓
(82738.81, 3881.14^2,1.4e+03)					
s-EMG4	33149.2384	2047.9803	[29134.649, 37163.828]	1.000	t✓
(33149.24, 2046.47^2,1.4e+03)					
s-EMG5	64112.0140	4540.1417	[55212.121, 73011.907]	1.000	t✓
(64112.01, 4536.79^2,1.4e+03)					
s-EMG6	-5.1987e+05	34810.2542	[-588110.302, -451635.464]	0.000	t✓
(-519872.88, 34784.57^2,1.4e+03)					
s-EMG7	2.7963e+05	26458.2333	[227762.858, 331493.301]	1.000	t✓
(279628.08, 26438.71^2,1.4e+03)					
s-EMG8	42047.7003	6105.3774	[30079.526, 54015.875]	1.000	t✓

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(42047.70, 6100.87^2,1.4e+03)
s-EMG9 | 42559.9712 4642.5030 [33459.422, 51660.520] 1.000 t✓
(42559.97, 4639.08^2,1.4e+03)
s-EMG10 | -1.0353e+05 11151.4950 [-125392.653, -81672.821] 0.000 t✓
(-103532.74, 11143.27^2,1.4e+03)
s-EMG11 | 2.0680e+05 1.3074e+05 [-49484.671, 463089.570] 0.943 t✓
(206802.45, 130644.42^2,1.4e+03)
s-EMG12 | 47987.1014 10124.8282 [28139.727, 67834.476] 1.000 t✓
(47987.10, 10117.36^2,1.4e+03)
Sigma2 | 1.5922 0.0612 [ 1.477, 1.717] 1.000 IG✓
(678.00, 0.00093)

```

Distribution	Mean	Std	CI95	Positive	
Intercept	-1.0256	0.3957	[-1.801, -0.250]	0.005	t✓
(-1.03, 0.40^2,1.4e+03)					
s-EMG1	14787.8233	7076.0703	[916.831, 28658.816]	0.982	t✓
(14787.82, 7070.85^2,1.4e+03)					
s-EMG2	-61227.9603	7621.2738	[-76167.698, -46288.223]	0.000	t✓
(-61227.96, 7615.65^2,1.4e+03)					
s-EMG3	82738.8104	3884.0057	[75125.119, 90352.502]	1.000	t✓
(82738.81, 3881.14^2,1.4e+03)					
s-EMG4	33149.2384	2047.9803	[29134.649, 37163.828]	1.000	t✓
(33149.24, 2046.47^2,1.4e+03)					
s-EMG5	64112.0140	4540.1417	[55212.121, 73011.907]	1.000	t✓
(64112.01, 4536.79^2,1.4e+03)					
s-EMG6	-5.1987e+05 34810.2542		[-588110.302, -451635.464]	0.000	t✓
(-519872.88, 34784.57^2,1.4e+03)					
s-EMG7	2.7963e+05 26458.2333		[227762.858, 331493.301]	1.000	t✓
(279628.08, 26438.71^2,1.4e+03)					
s-EMG8	42047.7003 6105.3774		[30079.526, 54015.875]	1.000	t✓
(42047.70, 6100.87^2,1.4e+03)					
s-EMG9	42559.9712 4642.5030		[33459.422, 51660.520]	1.000	t✓
(42559.97, 4639.08^2,1.4e+03)					
s-EMG10	-1.0353e+05 11151.4950		[-125392.653, -81672.821]	0.000	t✓
(-103532.74, 11143.27^2,1.4e+03)					
s-EMG11	2.0680e+05 1.3074e+05		[-49484.671, 463089.570]	0.943	t✓
(206802.45, 130644.42^2,1.4e+03)					
s-EMG12	47987.1014 10124.8282		[28139.727, 67834.476]	1.000	t✓
(47987.10, 10117.36^2,1.4e+03)					
Sigma2	1.5922 0.0612		[1.477, 1.717]	1.000	IG✓
(678.00, 0.00093)					

IdleTimeout has been reached.

Parallel pool using the 'local' profile is shutting down.

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