>> LS Regression

RMSE for Multi Variate Regression: 3.308447, Goodness of fit for Multi Variate \checkmark Regression: 80.615025%, RMSE for Least Squares Regression: 3.308447, Goodness of fit for \checkmark Least Squares Regression: 80.615025%, Goodness of fit for Bayesian Least Squares \checkmark Regression: 81.204603%, RMSE for Bayesian Least Squares Regression: 3.071978, A =

2.3673e-13

B =

1.4979

	1	Mean	Std	CI	95	Positive 🗸	•	
Distributi	on 							<i>L</i>
		0	70.7107	[-141.273,	1/1 2721	0.500	+ (0 00	57.74^2, ∠
Intercept 6)	ı	U	70.7107	[-141.2/3,	141.273]	0.300	L (0.00,	37.74 Z, E
		0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00,	182574.19 ∠
^2, 6) s-EMG12	I	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: 3

Log marginal likelihood: -3672.52

1	Mean	Std	CI95	Positive 🗸
Distribution				<i>\</i>
Intercept -9		0.7589	[-10.596, -7.621]	0.000 t (-9.11, ∠
•	3.6583e+06		[3105623.665, 4210953.075]	1.000 t '
s-EMG12 3	3.1276e+05	18198.1923	[277083.313, 348429.972]	1.000 t 🗹
Sigma2 12 (678.00, 0.0001		0.4986	[12.023, 13.977]	1.000 IG ∠
 Distribution	Mean	Std	CI95	Positive ∠
				· 🗹

Intercept -9.1086	0.7589	[-10.596,	-7.621]	0.000	t (-9.11, ∠
0.76 ² ,1.4e+03)					
s-EMG11 3.6583e+06	2.8193e+05	[3105623.665,	4210953.075]	1.000	t 🖍
(3658288.37, 281725.28^2,1	.4e+03)				
s-EMG12 3.1276e+05	18198.1923	[277083.313,	348429.972]	1.000	t 🗹
(312756.64, 18184.77^2,1.4	le+03)				
Sigma2 12.9641	0.4986	[12.023,	13.977]	1.000	IG 🗹
(678.00, 0.00011)					

>> LS Regression

RMSE for Multi Variate Regression: 1.619250, Goodness of fit for Multi Variate \checkmark Regression: 93.902129%, RMSE for Least Squares Regression: 1.619250, Goodness of fit for \checkmark Least Squares Regression: 93.902129%, Goodness of fit for Bayesian Least Squares \checkmark Regression: 95.141332%, RMSE for Bayesian Least Squares Regression: 1.731407, A =

3.6446e-11

B =

1.4979

	I	Mean	Std	CI	95	Positive 🗸	
Distributi							V
							Ľ
Intercept		0	70.7107	[-141.273,	141.273]	0.500	t (0.00, 57.74^2, ✓
6)		0	0.006105		446540 0001	0 500	
s-EMG1 ^2, 6)	ı	0	2.2361e+05	[-446/42.939,	446/42.939]	0.500	t (0.00, 182574.19 🗸
s-EMG2		0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00, 182574.19 🗸
^2, 6)							,
		0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00, 182574.19 🗸
^2, 6) s-EMG4	ı	0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6)							
s-EMG5	I	0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00, 182574.19 ✓
^2, 6) s-EMG6	ı	0	2 2361e+05	[-446742.939,	446742 9391	0.500	t (0.00, 182574.19 ✓
^2, 6)	'	O	2.23010103	[440/42.333,	110/12.939]	0.300	c (0.00, 1023/4.13 2
s-EMG7	1	0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00, 182574.19 ✔
^2, 6)		0	0.006105		446540 0001	0 500	
s-EMG8 ^2, 6)	ı	0	2.2361e+05	[-446742.939,	446/42.939]	0.500	t (0.00, 182574.19 🗸
s-EMG9		0	2.2361e+05	[-446742.939,	446742.939]	0.500	t (0.00, 182574.19 🗸
^2, 6)							
		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 \(\sigma \) ^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: -2293.69

 istribution	Mean	Std	CI	95	Positive k	
 Intercept		0.3957		-0.250]		 t ∠
-1.03, 0.40^2	,1.4e+03)					
s-EMG1	14787.8233	7076.0703	[916.831,	28658.816]	0.982	t 🗹
14787.82, 707	0.85 ² ,1.4e+03)					
s-EMG2 -	61227.9603	7621.2738	[-76167.698,	-46288.223]	0.000	t 🗹
-61227.96, 76	15.65^2 , 1.4e+03	3)				
s-EMG3		3884.0057	[75125.119,	90352.502]	1.000	t 🗹
82738.81, 388	1.14 ² ,1.4e+03)					
s-EMG4	33149.2384	2047.9803	[29134.649,	37163.828]	1.000	t 🖍
33149.24, 204	6.47 ² ,1.4e+03)					
s-EMG5	64112.0140	4540.1417	[55212.121,	73011.907]	1.000	t 🖍
64112.01, 453	6.79 ² ,1.4e+03)					
s-EMG6	-5.1987e+05	34810.2542	[-588110.302,	-451635.464]	0.000	t 🖍
-519872.88 , 3	4784.57 ² ,1.4e+	-03)				
s-EMG7	2.7963e+05	26458.2333	[227762.858,	331493.301]	1.000	t 🗹
279628.08, 26	438.71 ² ,1.4e+0)3)				
s-EMG8	42047.7003	6105.3774	[30079.526,	54015.875]	1.000	t 🗸
12047.70, 610	0.87 ² ,1.4e+03)					
s-EMG9	42559.9712	4642.5030	[33459.422,	51660.520]	1.000	t 🗹
2559.97, 463	9.08 ² ,1.4e+03)					
s-EMG10	-1.0353e+05	11151.4950	[-125392.653,	-81672.821]	0.000	t 🗹
103532.74, 1	1143.27 ² ,1.4e+	-03)				
-EMG11	2.0680e+05	1.3074e+05	[-49484.671,	463089.570]	0.943	t 🗹
06802.45, 13	0644.42^2,1.4e+	-03)				
-EMG12	47987.1014	10124.8282	[28139.727,	67834.476]	1.000	t 🗹
7987.10, 101	17.36 ² ,1.4e+03	3)				
Sigma2	1.5922	0.0612	[1.477,	1.717]	1.000	IG⋭
578.00, 0.000	93)					
						,
[]	Mean	Std	CI	95	Positive k	
istribution						
Intercept	-1.0256	0.3957	[-1.801,	-0.250]	0.005	t 🗹
1.03, 0.40^2						

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 (-61227.96, 7615.65 ² ,1.4e+03	7621.2738	[-76167.698,	-46288.223]	0.000	t 🗹
s-EMG3 82738.8104 (82738.81, 3881.14^2,1.4e+03)		[75125.119,	90352.502]	1.000	t 🗹
	2047.9803	[29134.649,	37163.828]	1.000	t 🗹
s-EMG5 64112.0140 (64112.01, 4536.79^2,1.4e+03)	4540.1417	[55212.121,	73011.907]	1.000	t 🗹
s-EMG6 -5.1987e+05 (-519872.88, 34784.57^2,1.4e+		[-588110.302,	-451635.464]	0.000	t 🗹
s-EMG7 2.7963e+05 (279628.08, 26438.71^2,1.4e+0)		[227762.858,	331493.301]	1.000	t 🗹
s-EMG8 42047.7003 (42047.70, 6100.87^2,1.4e+03)		[30079.526,	54015.875]	1.000	t 🗹
s-EMG9 42559.9712 (42559.97, 4639.08^2,1.4e+03)	4642.5030	[33459.422,	51660.520]	1.000	t 🗹
s-EMG10 -1.0353e+05 (-103532.74, 11143.27^2,1.4e+		[-125392.653,	-81672.821]	0.000	t 🗹
s-EMG11 2.0680e+05 (206802.45, 130644.42^2,1.4e+		[-49484.671,	463089.570]	0.943	t 🗹
s-EMG12 47987.1014 (47987.10, 10117.36^2,1.4e+03		[28139.727,	67834.476]	1.000	t 🗹
Sigma2 1.5922 (678.00, 0.00093)	0.0612	[1.477,	1.717]	1.000	IG⋭