```
>> LS_Regression
RMSE for Multi Variate Regression: 3.308447, Goodness of fit for Multi Variate↙
Regression: 80.615025%, RMSE for Least Squares Regression: 3.308447, Goodness of fit for↙
Least Squares Regression: 80.615025%, Goodness of fit for Bayesian Least Squares↙
Regression: 81.204603%, RMSE for Bayesian Least Squares Regression: 3.071978,
A =

   2.3673e-13


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-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:   3
Log marginal likelihood: -3672.52

           |     Mean           Std                  CI95             Positive↙
Distribution
-------------------------------------------------------------------------------------------↙
---------------------------
 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, 18184.77^2,1.4e+03)
 Sigma2    | 12.9641          0.4986           [12.023, 13.977]         1.000   IG↙
(678.00, 0.00011)


           |     Mean           Std                  CI95             Positive↙
Distribution
-------------------------------------------------------------------------------------------↙
---------------------------
```

```
 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, 18184.77^2,1.4e+03)
 Sigma2    | 12.9641          0.4986           [12.023, 13.977]         1.000   IG↙
(678.00, 0.00011)

>>
```