```
>> LS_Regression
RMSE for Multi Variate Regression: 1.556891, Goodness of fit for Multi Variate↙
Regression: 98.780781%, RMSE for Least Squares Regression: 1.556891, Goodness of fit for↙
Least Squares Regression: 98.780781%, Goodness of fit for Bayesian Least Squares↙
Regression: 101.989067%, RMSE for Bayesian Least Squares Regression: 1.390852,
A =

   1.4822e-11


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-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:   11
Log marginal likelihood: -2361.96

           |       Mean             Std                  CI95             Positive↙
Distribution
```

```
------------------------------------------------------------------------------------------↙
------------------------------
 Intercept |     -2.6966          0.3847           [-3.451, -1.942]         0.000   t↙
(-2.70, 0.38^2,1.4e+03)
 s-EMG1    |  -4474.8901       7195.0966       [-18579.206, 9629.426]       0.267   t↙
(-4474.89, 7189.79^2,1.4e+03)
 s-EMG2    | -25703.7738       7482.8551       [-40372.173, -11035.374]     0.000   t↙
(-25703.77, 7477.33^2,1.4e+03)
 s-EMG3    |  72982.7653       4026.7466        [65089.264, 80876.267]      1.000   t↙
(72982.77, 4023.78^2,1.4e+03)
 s-EMG4    |  35355.9874       2157.2253        [31127.248, 39584.727]      1.000   t↙
(35355.99, 2155.63^2,1.4e+03)
 s-EMG5    |  99616.8720       3401.9710        [92948.098, 106285.646]     1.000   t↙
(99616.87, 3399.46^2,1.4e+03)
 s-EMG6    |     -5.6543e+05  35954.4796      [-635906.821, -494946.006]    0.000   t↙
(-565426.41, 35927.95^2,1.4e+03)
 s-EMG7    |      2.6353e+05  27706.9244       [209213.009, 317838.990]     1.000   t↙
(263526.00, 27686.48^2,1.4e+03)
 s-EMG8    |  19657.8719       5801.4575         [8285.462, 31030.282]      1.000   t↙
(19657.87, 5797.18^2,1.4e+03)
 s-EMG11   |      4.9405e+05      1.3622e+05   [227021.671, 761086.362]     1.000   t↙
(494054.02, 136121.89^2,1.4e+03)
 s-EMG12   |  76242.4050      10449.0938        [55759.383, 96725.427]      1.000   t↙
(76242.41, 10441.39^2,1.4e+03)
 Sigma2    |      1.7819          0.0685           [ 1.653,  1.921]         1.000   IG↙
(678.00, 0.00083)


           |       Mean             Std                  CI95             Positive↙
Distribution
------------------------------------------------------------------------------------------↙
------------------------------
 Intercept |     -2.6966          0.3847           [-3.451, -1.942]         0.000   t↙
(-2.70, 0.38^2,1.4e+03)
 s-EMG1    |  -4474.8901       7195.0966       [-18579.206, 9629.426]       0.267   t↙
(-4474.89, 7189.79^2,1.4e+03)
 s-EMG2    | -25703.7738       7482.8551       [-40372.173, -11035.374]     0.000   t↙
(-25703.77, 7477.33^2,1.4e+03)
 s-EMG3    |  72982.7653       4026.7466        [65089.264, 80876.267]      1.000   t↙
(72982.77, 4023.78^2,1.4e+03)
 s-EMG4    |  35355.9874       2157.2253        [31127.248, 39584.727]      1.000   t↙
(35355.99, 2155.63^2,1.4e+03)
 s-EMG5    |  99616.8720       3401.9710        [92948.098, 106285.646]     1.000   t↙
(99616.87, 3399.46^2,1.4e+03)
 s-EMG6    |     -5.6543e+05  35954.4796      [-635906.821, -494946.006]    0.000   t↙
(-565426.41, 35927.95^2,1.4e+03)
 s-EMG7    |      2.6353e+05  27706.9244       [209213.009, 317838.990]     1.000   t↙
(263526.00, 27686.48^2,1.4e+03)
 s-EMG8    |  19657.8719       5801.4575         [8285.462, 31030.282]      1.000   t↙
(19657.87, 5797.18^2,1.4e+03)
 s-EMG11   |      4.9405e+05      1.3622e+05   [227021.671, 761086.362]     1.000   t↙
```

```
(494054.02, 136121.89^2,1.4e+03)
 s-EMG12    |  76242.4050      10449.0938        [55759.383, 96725.427]      1.000    t↙
(76242.41, 10441.39^2,1.4e+03)
 Sigma2     |      1.7819          0.0685           [ 1.653,  1.921]         1.000    IG↙
(678.00, 0.00083)

Warning: Error occurred while executing the listener callback for event↙
PlotSelectionChange defined for class
matlab.graphics.internal.PlotManager:
Execution of script java as a function is not supported:
C:\Program Files\MATLAB\R2021a\toolbox\matlab\general\java.m

Error in javaGetHandles (line 11)
     cellArray(i) = java (handle (objArray(i)));

Error in javaAddLsnrsToFigure>selectionLsnr (line 79)
objs = javaGetHandles (tmp);

Error in javaAddLsnrsToFigure>@(o,e)selectionLsnr(o,e,javaSelectionManager) (line 16)
         @(o, e)selectionLsnr(o, e, javaSelectionManager));

Error in selectobject (line 167)
    notify(pm,'PlotSelectionChange', evdata);

Error in plotSelectMode

Error in hgfeval (line 62)
        feval(fcn{1},varargin{:},fcn{2:end});

Error in matlab.uitools.internal.uimode/modeWindowButtonDownFcn (line 126)
hgfeval(newButtonDownFcn,hFig,evd);

Error in matlab.uitools.internal.uimode/modeControl>localModeWindowButtonDownFcn (line↙
134)
    hThis.modeWindowButtonDownFcn(hFig,evd,hThis,newValue);
> In selectobject (line 167)
In plotSelectMode
In hgfeval (line 62)
In matlab.uitools.internal.uimode/modeWindowButtonDownFcn (line 126)
In matlab.uitools.internal.uimode/modeControl>localModeWindowButtonDownFcn (line 134)
In getfigurefordesktopclient>fig2client (line 21)
In getfigurefordesktopclient (line 13)
In matlab.graphics.internal.↙
propertyinspector/PropertyInspectorManager/showPropertyInspectorIfNeeded (line 121)
>>
```