

Host

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Bayesian Regression

Bayesian Regression
Import data

Dataset Name

Warnings

The active dataset will replace the existing dataset named
BayesianRegressionData.

Bayesian Regression Variable Preparation

>Warning # 2004. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters
>will be used.

Bayesian Regression Variable Preparation

Create numeric complete-case flag, dummies, and standardized

Bayesian Regression Prepared Data Summary

Bayesian Regression Prepared Data Summary
Outcome, predictors, and complete-case context

Frequencies

Statistics

		Complete case flag for Bayesian regression model	School dummy: 1 = MS, 0 = GP	Sex dummy: 1 = male, 0 = female	Address dummy: 1 = urban, 0 = rural	Higher education intention dummy: yes
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0

Statistics

		Internet access dummy: yes	School support dummy: yes	Family support dummy: yes	Activities dummy: yes
N	Valid	649	649	649	649
	Missing	0	0	0	0

Frequency Table

Complete case flag for Bayesian regression model

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes / target	649	100.0	100.0	100.0

School dummy: 1 = MS, 0 = GP

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	423	65.2	65.2	65.2
	Yes / target	226	34.8	34.8	100.0
	Total	649	100.0	100.0	

Bayesian Regression Prepared Data Summary
Outcome, predictors, and complete-case context

Sex dummy: 1 = male, 0 = female

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	383	59.0	59.0	59.0
	Yes / target	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

Address dummy: 1 = urban, 0 = rural

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	197	30.4	30.4	30.4
	Yes / target	452	69.6	69.6	100.0
	Total	649	100.0	100.0	

Higher education intention dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	69	10.6	10.6	10.6
	Yes / target	580	89.4	89.4	100.0
	Total	649	100.0	100.0	

Internet access dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	151	23.3	23.3	23.3
	Yes / target	498	76.7	76.7	100.0
	Total	649	100.0	100.0	

School support dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	581	89.5	89.5	89.5
	Yes / target	68	10.5	10.5	100.0
	Total	649	100.0	100.0	

Bayesian Regression Prepared Data Summary
Outcome, predictors, and complete-case context

Family support dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	251	38.7	38.7	38.7
	Yes / target	398	61.3	61.3	100.0
	Total	649	100.0	100.0	

Activities dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	334	51.5	51.5	51.5
	Yes / target	315	48.5	48.5	100.0
	Total	649	100.0	100.0	

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Bayesian regression outcome: final grade	649	0	19	11.91	3.231
First period grade	649	0	19	11.40	2.745
Second period grade	649	0	19	11.57	2.914
Weekly study time group	649	1	4	1.93	.830
Number of past class failures	649	0	3	.22	.593
School absences	649	0	32	3.66	4.641
Student age	649	15	22	16.74	1.218
Mother education	649	0	4	2.51	1.135
Father education	649	0	4	2.31	1.100
School dummy: 1 = MS, 0 = GP	649	0	1	.35	.477
Sex dummy: 1 = male, 0 = female	649	0	1	.41	.492
Address dummy: 1 = urban, 0 = rural	649	0	1	.70	.460

Bayesian Regression Prepared Data Summary
Outcome, predictors, and complete-case context

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Higher education intention dummy: yes	649	0	1	.89	.308
Internet access dummy: yes	649	0	1	.77	.423
Valid N (listwise)	649				

Bayesian Regression Standardized Predictors

>Warning # 2004. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters
>will be used.

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
First period grade	649	0	19	11.40	2.745
Second period grade	649	0	19	11.57	2.914
Weekly study time group	649	1	4	1.93	.830
Number of past class failures	649	0	3	.22	.593
School absences	649	0	32	3.66	4.641
Student age	649	15	22	16.74	1.218
Mother education	649	0	4	2.51	1.135
Father education	649	0	4	2.31	1.100
Valid N (listwise)	649				

Bayesian Regression Outcome Distribution

Bayesian Regression Outcome Distribution
Distribution of G3 used by Bayesian normal linear model

Explore

Complete case flag for Bayesian regression model

Case Processing Summary

		Cases			
Complete case flag for Bayesian regression model		Valid		Missing	
		N	Percent	N	Percent
Bayesian regression outcome: final grade	Yes / target	649	100.0%	0	0.0%

Case Processing Summary

		Cases	
Complete case flag for Bayesian regression model		Total	
		N	Percent
Bayesian regression outcome: final grade	Yes / target	649	100.0%

Descriptives

Complete case flag for Bayesian regression model			Statistic
Bayesian regression outcome: final grade	Yes / target	Mean	11.91
		95% Confidence Interval for Mean	
		Lower Bound	11.66
		Upper Bound	12.16
		5% Trimmed Mean	12.06
		Median	12.00
		Variance	10.437
		Std. Deviation	3.231
		Minimum	0
		Maximum	19
		Range	19
		Interquartile Range	4
		Skewness	-.913
		Kurtosis	2.712

Bayesian Regression Outcome Distribution
Distribution of G3 used by Bayesian normal linear model

Descriptives

Complete case flag for Bayesian regression model			Std. Error
Bayesian regression outcome: final grade	Yes / target	Mean	.127
		95% Confidence Interval for Mean	Lower Bound
			Upper Bound
		5% Trimmed Mean	
		Median	
		Variance	
		Std. Deviation	
		Minimum	
		Maximum	
		Range	
		Interquartile Range	
		Skewness	.096
		Kurtosis	.192

Tests of Normality

Complete case flag for Bayesian regression model		Kolmogorov-Smirnov ^a			Shapiro-...
		Statistic	df	Sig.	Statistic
Bayesian regression outcome: final grade	Yes / target	.124	649	.000	.926

Tests of Normality

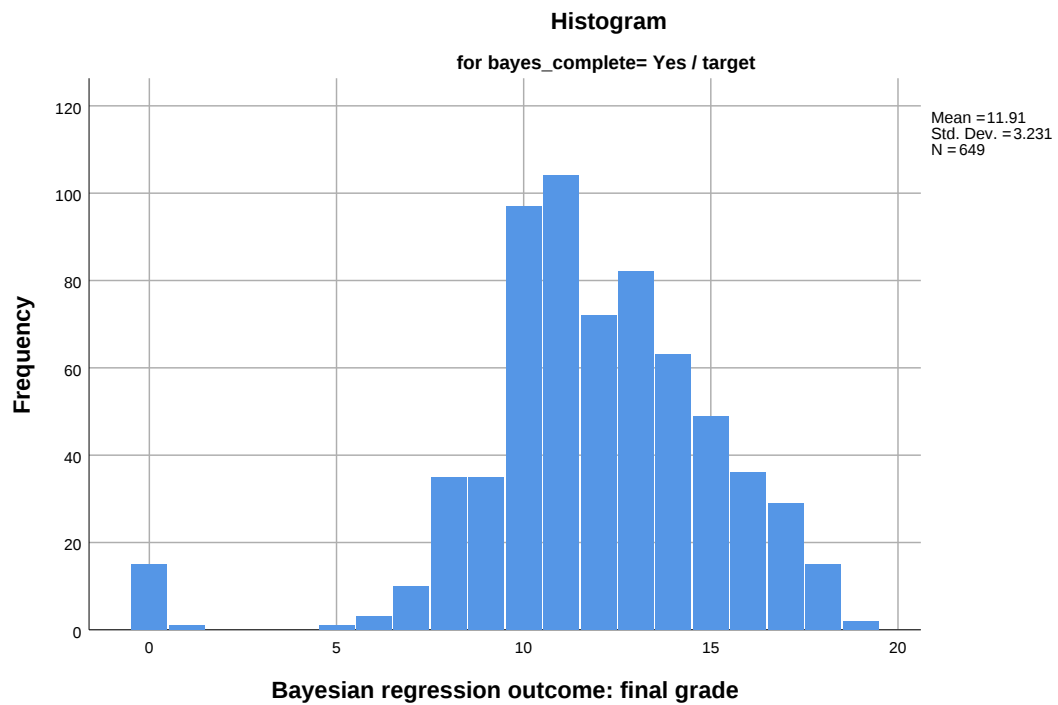
Complete case flag for Bayesian regression model		Shapiro-Wilk	
		df	Sig.
Bayesian regression outcome: final grade	Yes / target	649	.000

a. Lilliefors Significance Correction

Bayesian regression outcome: final grade

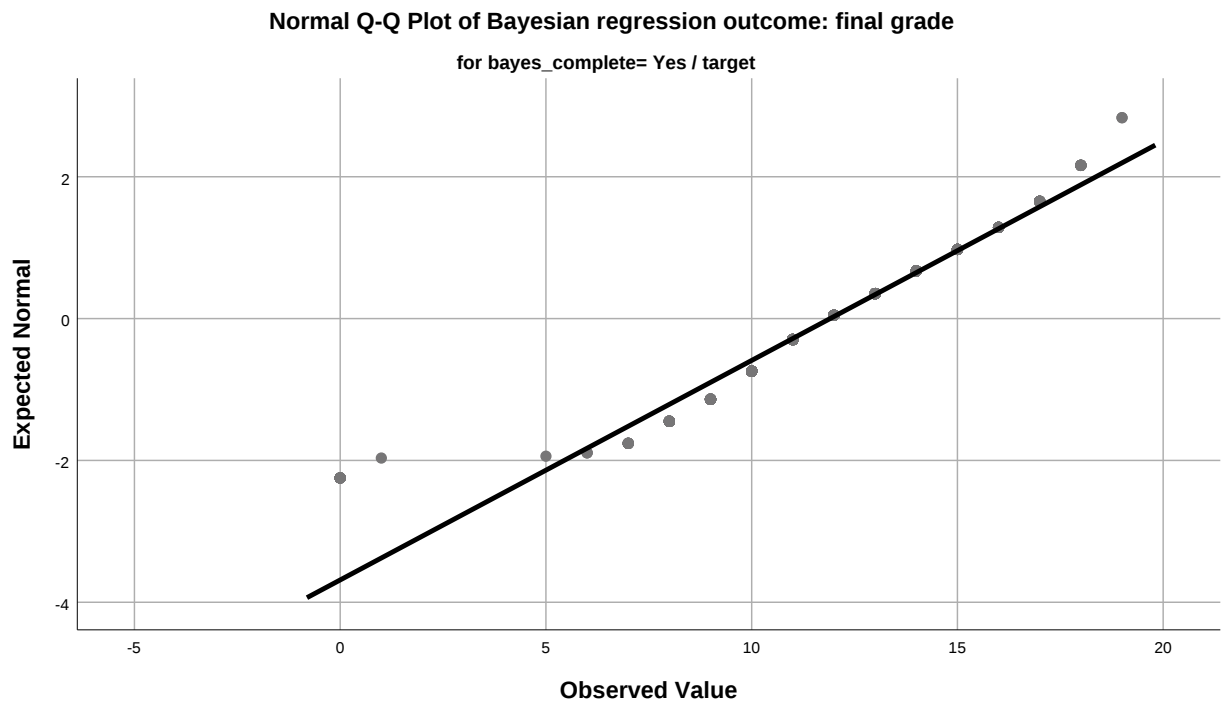
Histograms

Bayesian Regression Outcome Distribution
Distribution of G3 used by Bayesian normal linear model



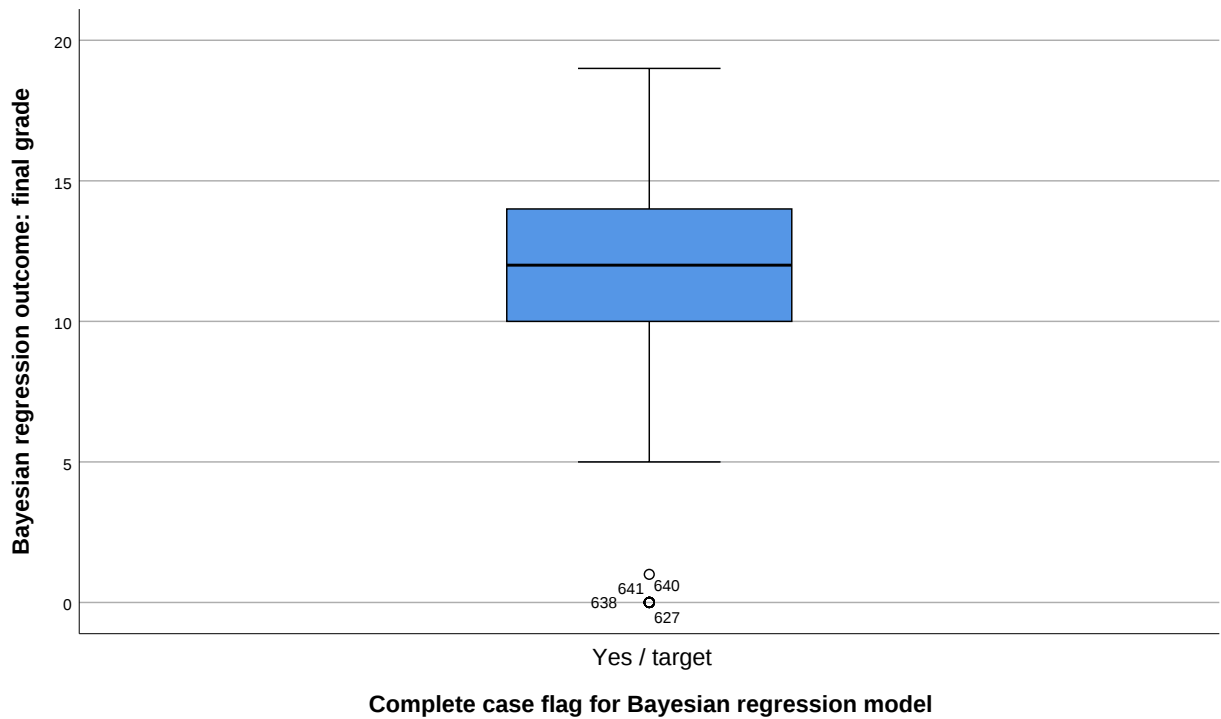
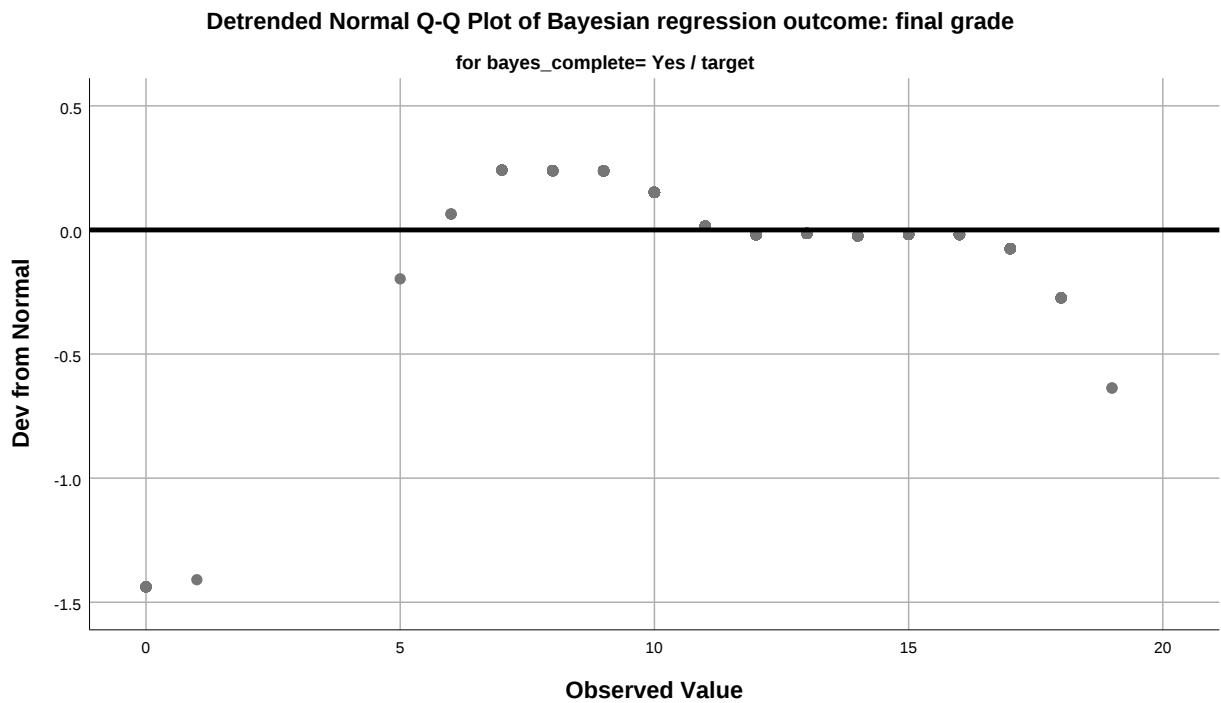
Normal Q-Q Plots

Bayesian Regression Outcome Distribution
Distribution of G3 used by Bayesian normal linear model



Detrended Normal Q-Q Plots

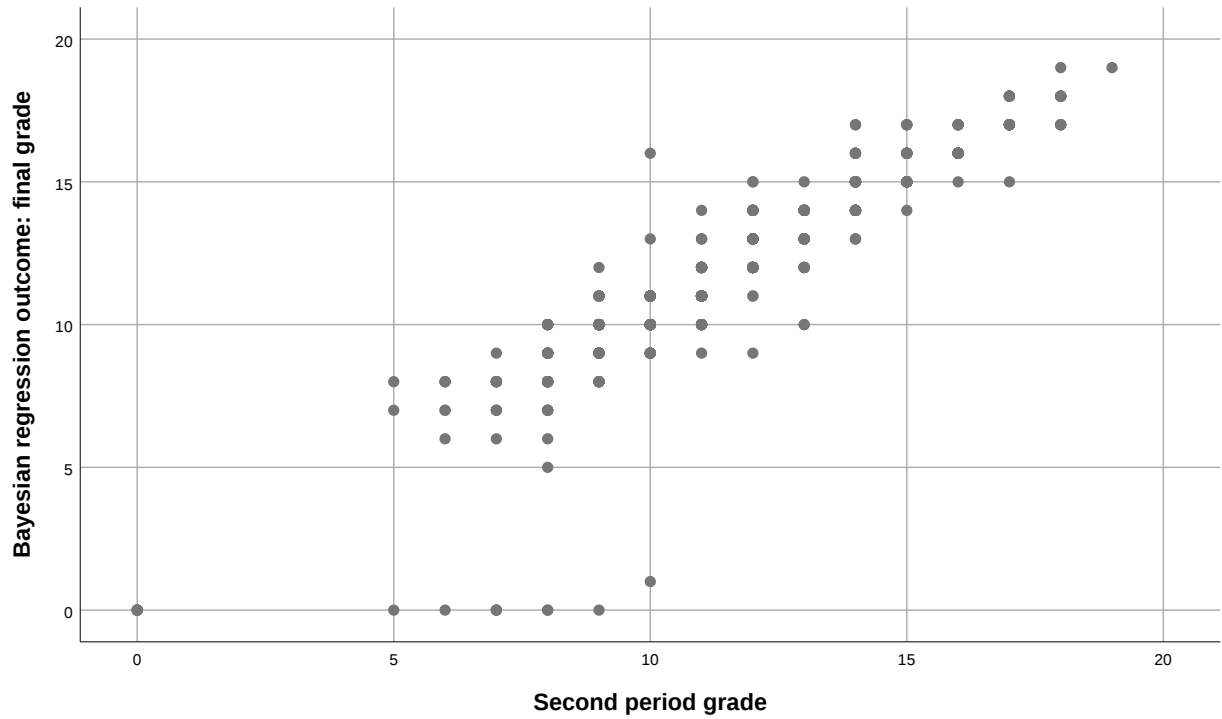
Bayesian Regression Outcome Distribution
Distribution of G3 used by Bayesian normal linear model



Bayesian Regression Scatter Context

Bayesian Regression Scatter Context
Observed relationship between G2 and G3

Graph



Bayesian Regression Correlation Context
Continuous predictors used in the Bayesian model

Correlations

		Correlations		
		Bayesian regression outcome: final grade	First period grade	Second period grade
Bayesian regression outcome: final grade	Pearson Correlation	1	.826**	.919**
	Sig. (2-tailed)		.000	.000
	N	649	649	649
First period grade	Pearson Correlation	.826**	1	.865**
	Sig. (2-tailed)	.000		.000
	N	649	649	649
Second period grade	Pearson Correlation	.919**	.865**	1
	Sig. (2-tailed)	.000	.000	
	N	649	649	649
Weekly study time group	Pearson Correlation	.250**	.261**	.240**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Number of past class failures	Pearson Correlation	-.393**	-.384**	-.386**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
School absences	Pearson Correlation	-.091*	-.147**	-.125**
	Sig. (2-tailed)	.020	.000	.001
	N	649	649	649
Student age	Pearson Correlation	-.107**	-.174**	-.107**
	Sig. (2-tailed)	.007	.000	.006
	N	649	649	649
Mother education	Pearson Correlation	.240**	.260**	.264**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Father education	Pearson Correlation	.212**	.218**	.225**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649

Bayesian Regression Correlation Context
Continuous predictors used in the Bayesian model

Correlations

		Weekly study time group	Number of past class failures	School absences
Bayesian regression outcome: final grade	Pearson Correlation	.250**	-.393**	-.091*
	Sig. (2-tailed)	.000	.000	.020
	N	649	649	649
First period grade	Pearson Correlation	.261**	-.384**	-.147**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Second period grade	Pearson Correlation	.240**	-.386**	-.125**
	Sig. (2-tailed)	.000	.000	.001
	N	649	649	649
Weekly study time group	Pearson Correlation	1	-.147**	-.118**
	Sig. (2-tailed)		.000	.003
	N	649	649	649
Number of past class failures	Pearson Correlation	-.147**	1	.123**
	Sig. (2-tailed)	.000		.002
	N	649	649	649
School absences	Pearson Correlation	-.118**	.123**	1
	Sig. (2-tailed)	.003	.002	
	N	649	649	649
Student age	Pearson Correlation	-.008	.320**	.150**
	Sig. (2-tailed)	.831	.000	.000
	N	649	649	649
Mother education	Pearson Correlation	.097*	-.172**	-.009
	Sig. (2-tailed)	.013	.000	.827
	N	649	649	649
Father education	Pearson Correlation	.050	-.166**	.030
	Sig. (2-tailed)	.200	.000	.448
	N	649	649	649

Bayesian Regression Correlation Context
Continuous predictors used in the Bayesian model

Correlations

		Student age	Mother education	Father education
Bayesian regression outcome: final grade	Pearson Correlation	-.107**	.240**	.212**
	Sig. (2-tailed)	.007	.000	.000
	N	649	649	649
First period grade	Pearson Correlation	-.174**	.260**	.218**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
Second period grade	Pearson Correlation	-.107**	.264**	.225**
	Sig. (2-tailed)	.006	.000	.000
	N	649	649	649
Weekly study time group	Pearson Correlation	-.008	.097*	.050
	Sig. (2-tailed)	.831	.013	.200
	N	649	649	649
Number of past class failures	Pearson Correlation	.320**	-.172**	-.166**
	Sig. (2-tailed)	.000	.000	.000
	N	649	649	649
School absences	Pearson Correlation	.150**	-.009	.030
	Sig. (2-tailed)	.000	.827	.448
	N	649	649	649
Student age	Pearson Correlation	1	-.108**	-.121**
	Sig. (2-tailed)		.006	.002
	N	649	649	649
Mother education	Pearson Correlation	-.108**	1	.647**
	Sig. (2-tailed)	.006		.000
	N	649	649	649
Father education	Pearson Correlation	-.121**	.647**	1
	Sig. (2-tailed)	.002	.000	
	N	649	649	649

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Internet access dummy: yes, Student age, Weekly study time group, Address dummy: 1 = urban, 0 = rural, School absences, Sex dummy: 1 = male, 0 = female, Father education, Higher education intention dummy: yes, Number of past class failures, School dummy: 1 = MS, 0 = GP, Second period grade, Mother education, First period grade ^b	.	Enter

a. Dependent Variable: Bayesian regression outcome: final grade

b. All requested variables entered.

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.923 ^a	.853	.850	1.253

a. Predictors: (Constant), Internet access dummy: yes, Student age, Weekly study time group, Address dummy: 1 = urban, 0 = rural, School absences, Sex dummy: 1 = male, 0 = female, Father education, Higher education intention dummy: yes, Number of past class failures, School dummy: 1 = MS, 0 = GP, Second period grade, Mother education, First period grade

b. Dependent Variable: Bayesian regression outcome: final grade

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5767.035	13	443.618	282.763	.000 ^b
	Residual	996.232	635	1.569		
	Total	6763.267	648			

a. Dependent Variable: Bayesian regression outcome: final grade

b. Predictors: (Constant), Internet access dummy: yes, Student age, Weekly study time group, Address dummy: 1 = urban, 0 = rural, School absences, Sex dummy: 1 = male, 0 = female, Father education, Higher education intention dummy: yes, Number of past class failures, School dummy: 1 = MS, 0 = GP, Second period grade, Mother education, First period grade

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.428	.819		-.522	.602
	First period grade	.131	.037	.112	3.555	.000
	Second period grade	.879	.034	.793	25.572	.000
	Weekly study time group	.059	.064	.015	.922	.357
	Number of past class failures	-.216	.096	-.040	-2.247	.025
	School absences	.018	.011	.026	1.600	.110
	Student age	.030	.044	.011	.669	.504
	Mother education	-.058	.060	-.020	-.969	.333
	Father education	.017	.059	.006	.289	.773
	School dummy: 1 = MS, 0 = GP	-.169	.120	-.025	-1.403	.161
	Sex dummy: 1 = male, 0 = female	-.190	.105	-.029	-1.819	.069
	Address dummy: 1 = urban, 0 = rural	.104	.116	.015	.898	.369
	Higher education intention dummy: yes	.187	.180	.018	1.042	.298
	Internet access dummy: yes	.056	.124	.007	.454	.650

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
1	(Constant)	-2.036	1.181
	First period grade	.059	.204
	Second period grade	.811	.946
	Weekly study time group	-.066	.184
	Number of past class failures	-.404	-.027
	School absences	-.004	.040
	Student age	-.058	.117
	Mother education	-.175	.059
	Father education	-.099	.133
	School dummy: 1 = MS, 0 = GP	-.405	.067
	Sex dummy: 1 = male, 0 = female	-.396	.015
	Address dummy: 1 = urban, 0 = rural	-.123	.331
	Higher education intention dummy: yes	-.165	.540
	Internet access dummy: yes	-.187	.299

a. Dependent Variable: Bayesian regression outcome: final grade

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	(Constant)	Variance Proportions	
					First period grade	Second period grade
1	1	10.206	1.000	.00	.00	.00
	2	1.008	3.182	.00	.00	.00
	3	.787	3.600	.00	.00	.00
	4	.588	4.166	.00	.00	.00
	5	.502	4.507	.00	.00	.00
	6	.237	6.558	.00	.00	.00
	7	.200	7.141	.00	.00	.00
	8	.190	7.321	.00	.00	.00
	9	.107	9.784	.00	.01	.01
	10	.072	11.930	.00	.02	.03
	11	.060	12.997	.00	.00	.00
	12	.032	17.767	.03	.04	.06
	13	.008	36.367	.00	.87	.87
	14	.002	70.748	.96	.05	.02

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions				
		Weekly study time group	Number of past class failures	School absences	Student age	Mother education
1	1	.00	.00	.00	.00	.00
	2	.00	.49	.01	.00	.00
	3	.00	.04	.18	.00	.00
	4	.00	.00	.22	.00	.00
	5	.01	.23	.48	.00	.00
	6	.00	.02	.00	.00	.03
	7	.15	.00	.01	.00	.04
	8	.02	.00	.00	.00	.06
	9	.74	.01	.00	.00	.02
	10	.03	.01	.01	.00	.00
	11	.00	.00	.01	.00	.84
	12	.04	.18	.08	.05	.00
	13	.00	.00	.00	.00	.00
	14	.00	.03	.00	.94	.00

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions				
		Father education	School dummy: 1 = MS, 0 = GP	Sex dummy: 1 = male, 0 = female	Address dummy: 1 = urban, 0 = rural	Higher education intention dummy: yes
1	1	.00	.00	.00	.00	.00
	2	.00	.06	.01	.00	.00
	3	.00	.36	.03	.01	.00
	4	.00	.00	.68	.00	.00
	5	.00	.15	.14	.02	.00
	6	.05	.07	.01	.82	.00
	7	.05	.09	.05	.05	.02
	8	.15	.01	.01	.04	.00
	9	.01	.03	.03	.01	.14
	10	.00	.00	.00	.01	.75
	11	.73	.00	.00	.00	.00
	12	.01	.22	.05	.02	.02
	13	.00	.00	.00	.00	.00
	14	.00	.00	.01	.00	.06

Frequentist OLS Context for Bayesian Regression
Comparison model only; Bayesian posterior is computed below

Collinearity Diagnostics^a

		Variance ...
Model	Dimension	Internet access dummy: yes
1	1	.00
	2	.00
	3	.00
	4	.00
	5	.00
	6	.01
	7	.36
	8	.56
	9	.01
	10	.01
	11	.02
	12	.02
	13	.00
	14	.00

a. Dependent Variable: Bayesian regression outcome: final grade

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	.03	19.40	11.91	2.983	649
Residual	-9.086	5.486	.000	1.240	649
Std. Predicted Value	-3.980	2.513	.000	1.000	649
Std. Residual	-7.254	4.380	.000	.990	649

a. Dependent Variable: Bayesian regression outcome: final grade

Bayesian Regression Posterior Calculation

Bayesian Regression Posterior Calculation
Conjugate normal linear model using SPSS MATRIX

Matrix

Run MATRIX procedure:

>Warning # 12309 in column 9. Text: prior_var
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: prior_var
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 30. Text: prior_var
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: beta0_part
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: beta_n_part
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 33. Text: beta0_part
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 46. Text: beta_n_part
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: sigma2_mean
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 32. Text: sigma2_mean
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: posterior_summary
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: bayes_r2_approx
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 9. Text: model_summary
>Variable name is truncated to 8 characters.

Bayesian Regression Posterior Calculation
Conjugate normal linear model using SPSS MATRIX

>Warning # 12309 in column 42. Text: sigma2_mean
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 55. Text: bayes_r2_approx
>Variable name is truncated to 8 characters.

>Warning # 12309 in column 7. Text: posterior_summary
>Variable name is truncated to 8 characters.

Bayesian posterior summary columns: Posterior Mean, Posterior SD, Approx 95% C
I Lower, Approx 95% CI Upper. Rows: Intercept, ZG1, ZG

11.75985	.22075	11.32718	12.19251
.36039	.10031	.16378	.55700
2.56046	.09910	2.36622	2.75469
.04873	.05230	-.05378	.15124
-.12795	.05637	-.23843	-.01747
.08333	.05153	-.01768	.18434
.03627	.05363	-.06884	.14137
-.06552	.06691	-.19666	.06561
.01883	.06450	-.10760	.14525
-.16873	.11907	-.40211	.06465
-.19045	.10367	-.39365	.01275
.10388	.11438	-.12030	.32806
.18735	.17771	-.16097	.53566
.05627	.12260	-.18401	.29656

>Warning # 12309 in column 7. Text: model_summary
>Variable name is truncated to 8 characters.

Bayesian model summary rows: N, Parameters, Posterior a sigma2, Posterior b si
gma2, Posterior sigma2 mean, Approx Bayesian R Squared

649.00000
14.00000
326.50000
500.21920
1.53677
.85270
1.23896

Bayesian Regression Posterior Calculation
Conjugate normal linear model using SPSS MATRIX

----- END MATRIX -----

Bayesian Regression Saved Prediction Context

>Warning # 2004. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters
>will be used.

Bayesian Regression Saved Prediction Context
 OLS saved values are included for comparison in the output f

Explore

Total Sample

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Unstandardized Predicted Value	649	100.0%	0	0.0%	649	100.0%
Unstandardized Residual	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error
Unstandardized Predicted Value	Mean	11.9060092	.11710257
	95% Confidence Interval for Mean	Lower Bound	11.6760629
		Upper Bound	12.1359556
	5% Trimmed Mean	11.9393072	
	Median	11.7441150	
	Variance	8.900	
	Std. Deviation	2.98324405	
	Minimum	.03373	
	Maximum	19.40422	
	Range	19.37049	
	Interquartile Range	3.72268	
	Skewness	-.318	.096
	Kurtosis	1.176	.192
Unstandardized Residual	Mean	.0000000	.04867101
	95% Confidence Interval for Mean	Lower Bound	-.0955719
		Upper Bound	.0955719
	5% Trimmed Mean	.0712673	
	Median	-.0144397	
	Variance	1.537	
	Std. Deviation	1.23991722	
	Minimum	-9.08561	

Bayesian Regression Saved Prediction Context
 OLS saved values are included for comparison in the output f

Descriptives

		Statistic	Std. Error
	Maximum	5.48570	
	Range	14.57131	
	Interquartile Range	1.11136	
	Skewness	-2.875	.096
	Kurtosis	18.486	.192

Tests of Normality

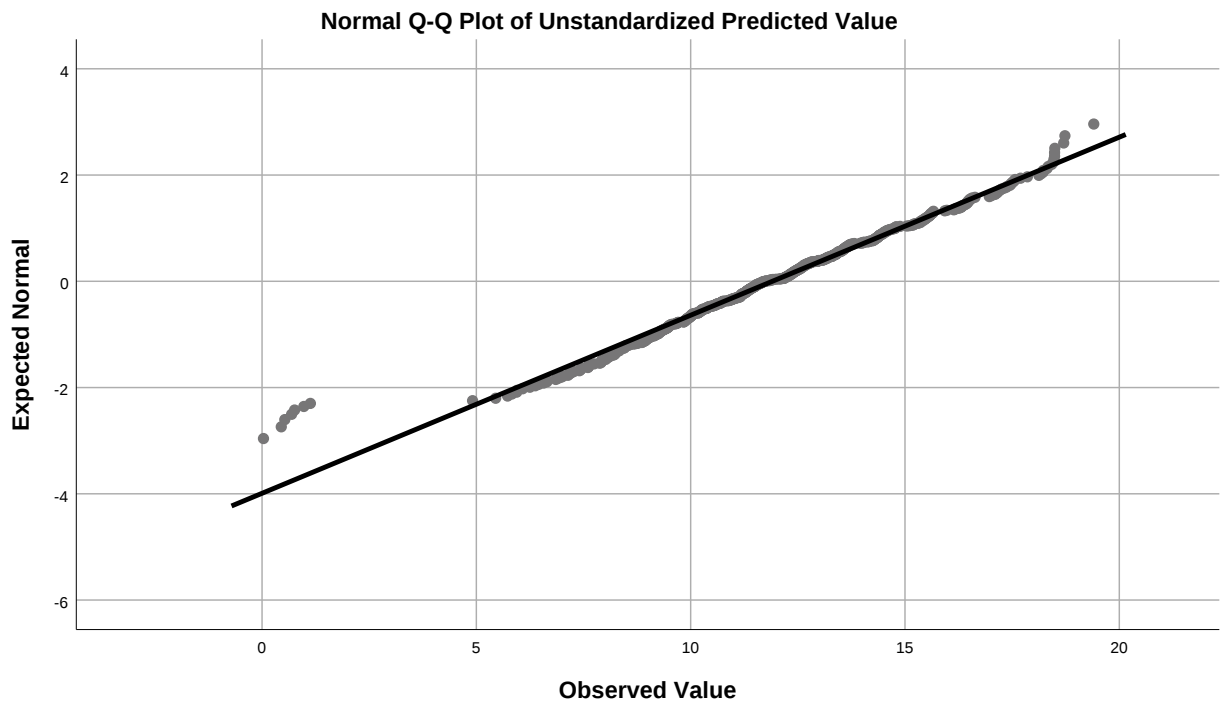
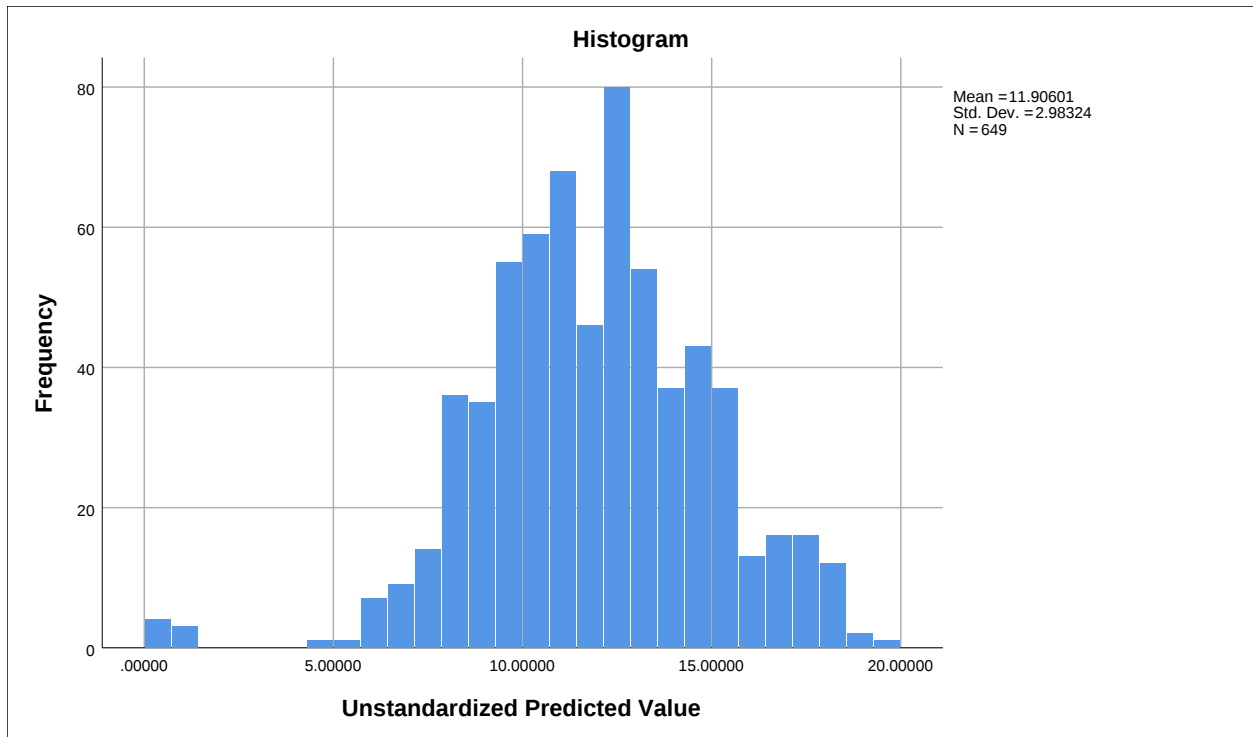
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Unstandardized Predicted Value	.030	649	.200*	.980	649	.000
Unstandardized Residual	.149	649	.000	.763	649	.000

*. This is a lower bound of the true significance.

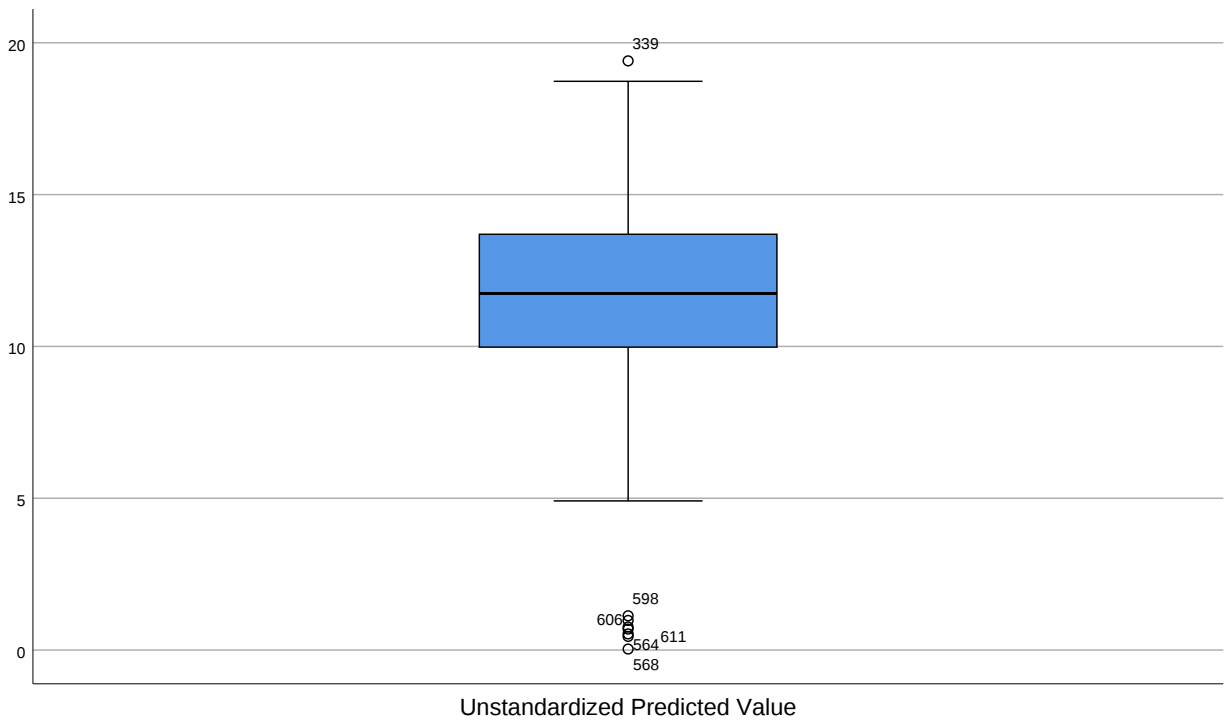
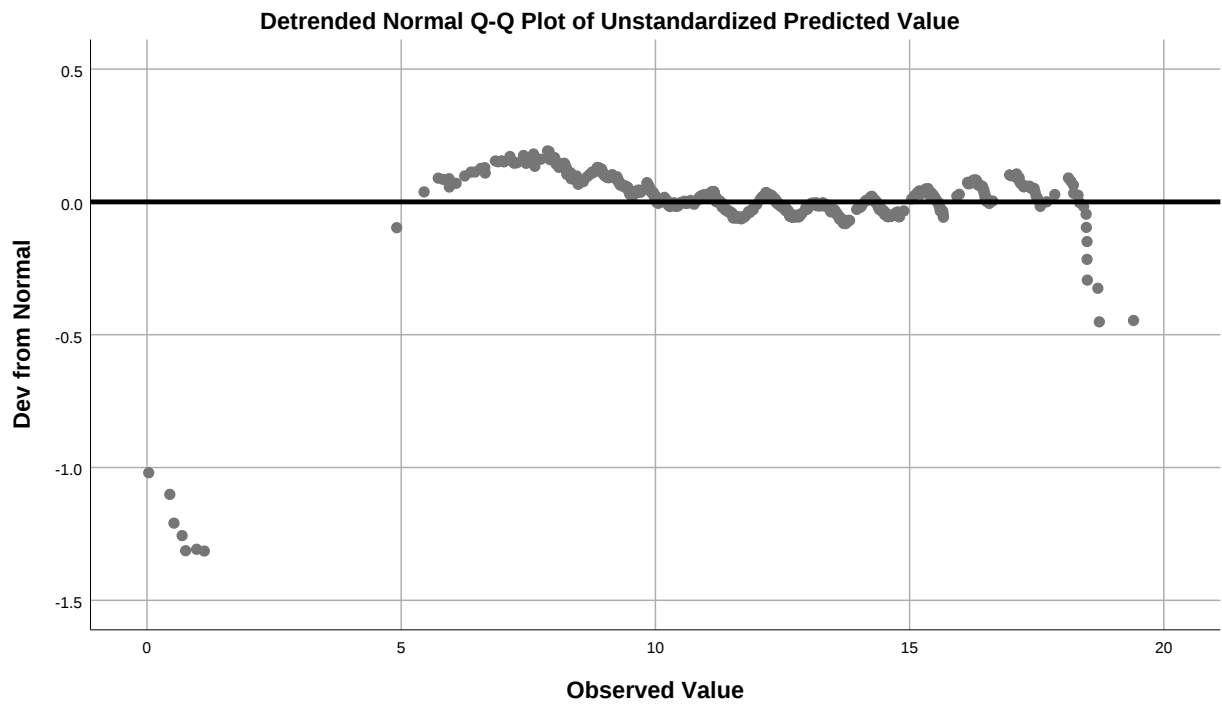
a. Lilliefors Significance Correction

Unstandardized Predicted Value

Bayesian Regression Saved Prediction Context
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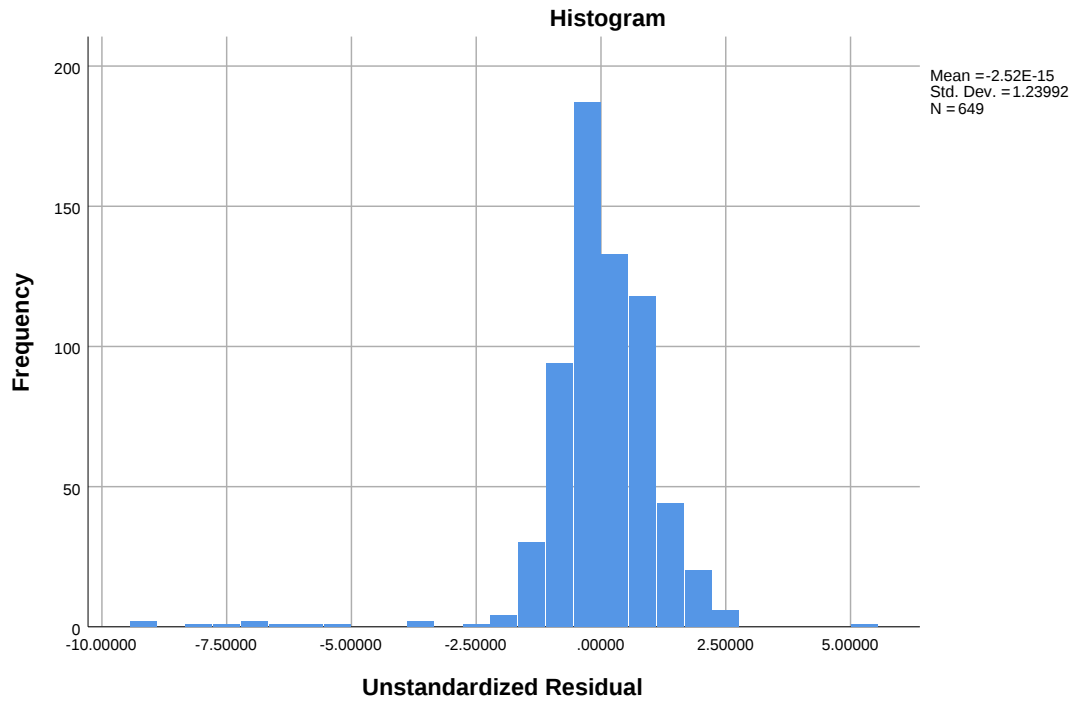


Bayesian Regression Saved Prediction Context
OLS saved values are included for comparison in the output f

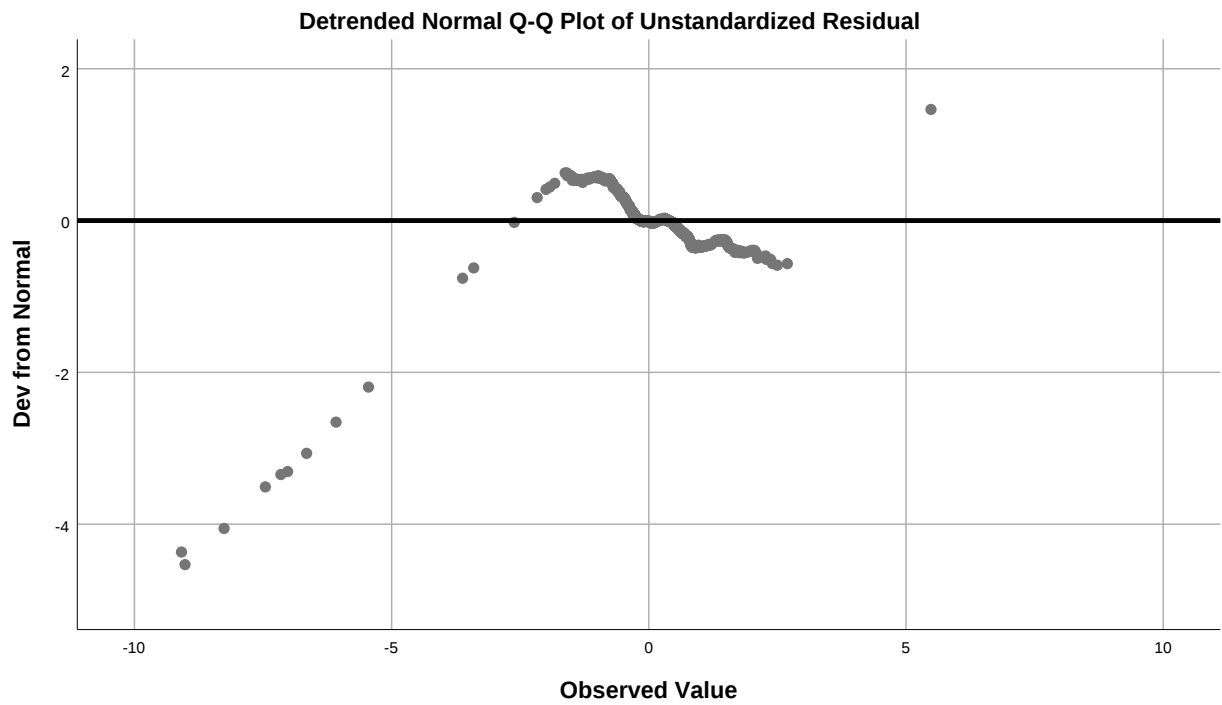
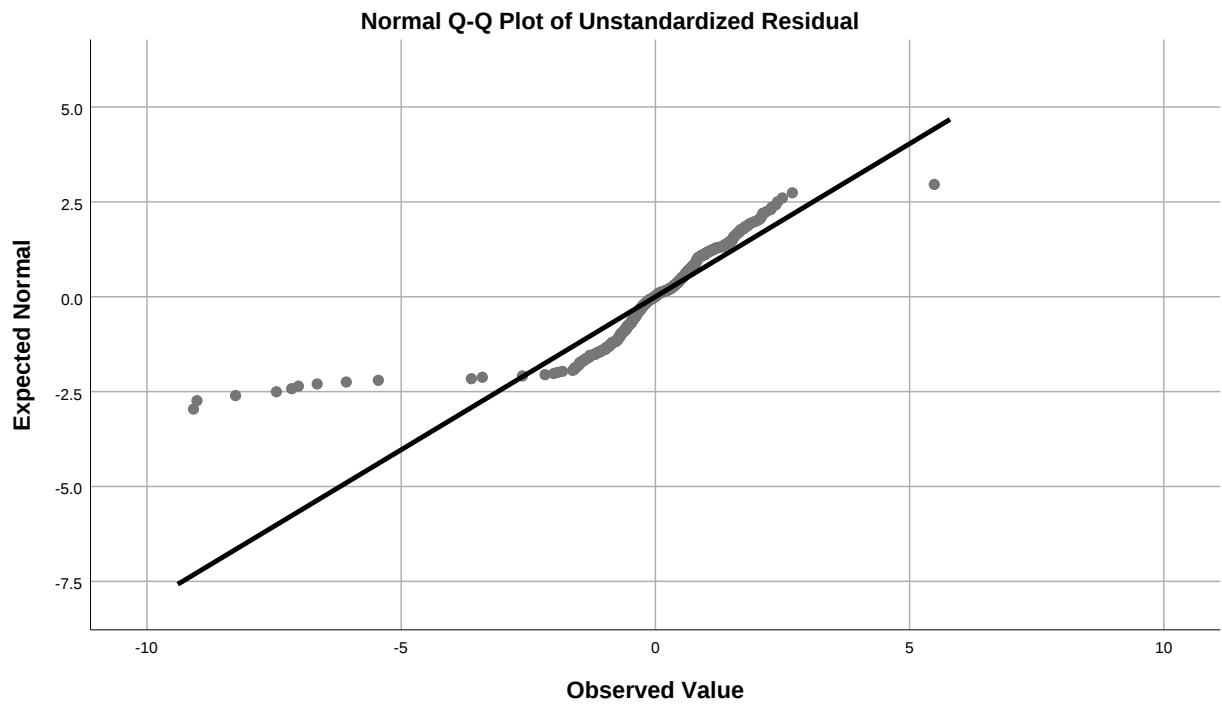


Bayesian Regression Saved Prediction Context
OLS saved values are included for comparison in the output f

Unstandardized Residual



Bayesian Regression Saved Prediction Context
OLS saved values are included for comparison in the output f



Bayesian Regression Saved Prediction Context
OLS saved values are included for comparison in the output f

