Psychology Data Analysis Report

Correlation Matrix

	participant_	idage	stress_1	stress_2	stress_3	stress_4	stress_5	wellbeing_	1 wellbeing_2	wellbeing_3	wellbeing_	4 sleep_hou	s performance
participant_	id 1.00	0.06	0.09	0.09	0.03	0.11	0.10	-0.08	-0.07	-0.07	-0.03	-0.12	-0.10
age	0.06	1.00	0.02	0.07	0.06	0.04	0.01	-0.07	-0.10	-0.10	-0.06	-0.05	-0.10
stress_1	0.09	0.02	1.00	0.83	0.80	0.83	0.82	-0.70	-0.70	-0.74	-0.73	-0.00	-0.34
stress_2	0.09	0.07	0.83	1.00	0.79	0.78	0.84	-0.71	-0.69	-0.72	-0.69	-0.02	-0.37
stress_3	0.03	0.06	0.80	0.79	1.00	0.82	0.83	-0.69	-0.71	-0.69	-0.70	-0.04	-0.35
stress_4	0.11	0.04	0.83	0.78	0.82	1.00	0.80	-0.74	-0.73	-0.76	-0.70	-0.04	-0.35
stress_5	0.10	0.01	0.82	0.84	0.83	0.80	1.00	-0.72	-0.70	-0.74	-0.70	0.02	-0.35
wellbeing_	1 -0.08	-0.07	-0.70	-0.71	-0.69	-0.74	-0.72	1.00	0.83	0.85	0.84	0.02	0.31
wellbeing_2	2 -0.07	-0.10	-0.70	-0.69	-0.71	-0.73	-0.70	0.83	1.00	0.84	0.81	0.05	0.30
wellbeing_3	3 -0.07	-0.10	-0.74	-0.72	-0.69	-0.76	-0.74	0.85	0.84	1.00	0.83	0.09	0.35
wellbeing_4	4 -0.03	-0.06	-0.73	-0.69	-0.70	-0.70	-0.70	0.84	0.81	0.83	1.00	0.00	0.31
sleep_hour	s -0.12	-0.05	-0.00	-0.02	-0.04	-0.04	0.02	0.02	0.05	0.09	0.00	1.00	0.54
performano	e_se@unte0	-0.10	-0.34	-0.37	-0.35	-0.35	-0.35	0.31	0.30	0.35	0.31	0.54	1.00

Regression Analysis

OLS Regression Results

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Dep. Variable: performance_score R-squared: 0.447

Model: OLS Adj. R-squared: 0.399 Method: Least Squares F-statistic: 9.256

Date: Thu, 28 Aug 2025 Prob (F-statistic): 1.55e-16

Time: 23:58:16 Log-Likelihood: -604.17 No. Observations: 200 AIC: 1242. Df Residuals: 183 BIC: 1298.

Df Model: 16

Covariance Type: nonrobust

coef std err t P>|t| [0.025 0.975]

const 50.1546 5.087 9.860 0.000 40.118 60.191 age -0.0782 0.087 -0.903 0.368 -0.249 0.093

stress_1 -0.1777 0.638 -0.279 0.781 -1.436 1.080

stress_3 -0.2250 0.607 -0.371 0.711 -1.422 0.972

stress_4 -0.0335 0.596 -0.056 0.955 -1.209 1.142

stress_5 -0.8635 0.632 -1.367 0.173 -2.110 0.383

wellbeing_1 0.1273 0.543 0.235 0.815 -0.943 1.198 wellbeing_2 -0.4408 0.514 -0.857 0.392 -1.455 0.574

wellbeing_3 -0.0279 0.572 -0.049 0.961 -1.157 1.101 sleep_hours 2.9065 0.310 9.363 0.000 2.294 3.519 wellbeing_4 0.4840 0.515 0.939 0.349 -0.533 1.501 gender_Male -0.6452 0.773 -0.835 0.405 -2.170 0.880 gender_Other -1.1056 1.857 -0.595 0.552 -4.770 2.559 education_High School -1.1532 0.891 -1.295 0.197 -2.911 0.604 education_Master -1.0486 1.018 -1.030 0.304 -3.056 0.959 education_PhD -0.1523 1.502 -0.101 0.919 -3.117 2.812

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Omnibus: 1.739 Durbin-Watson: 2.090

Prob(Omnibus): 0.419 Jarque-Bera (JB): 1.814

Skew: -0.194 Prob(JB): 0.404 Kurtosis: 2.742 Cond. No. 397.

=== Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

Correlation Heatmap

Correlation Matrix

