

--- Linear Regression Summary ---

OLS Regression Results			
Dep. Variable:	obesity_rate	R-squared:	0.394
Model:	OLS	Adj. R-squared:	0.392
Method:	Least Squares	F-statistic:	205.8
Date:	Sun, 06 Apr 2025	Prob (F-statistic):	2.61e-36
Time:	21:53:38	Log-Likelihood:	-770.89
No. Observations:	319	AIC:	1546.
Df Residuals:	317	BIC:	1553.
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	17.1271	0.826	20.746	0.000	15.503	18.751
physical_inactivity	0.4708	0.033	14.345	0.000	0.406	0.535

Omnibus:	7.053	Durbin-Watson:	0.970
Prob(Omnibus):	0.029	Jarque-Bera (JB):	7.124
Skew:	-0.366	Prob(JB):	0.0284
Kurtosis:	2.996	Cond. No.	137.

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

--- Lasso Coefficient ---
{'physical_inactivity': np.float64(2.076198730220487)}

--- Quantile Regression Summary (75th percentile) ---
QuantReg Regression Results

Dep. Variable:	obesity_rate	Pseudo R-squared:	0.2519
Model:	QuantReg	Bandwidth:	1.828
Method:	Least Squares	Sparsity:	8.106
Date:	Sun, 06 Apr 2025	No. Observations:	319
Time:	21:53:38	Df Residuals:	317
		Df Model:	1

	coef	std err	t	P> t	[0.025	0.975]
Intercept	18.3498	0.996	18.423	0.000	16.390	20.309
physical_inactivity	0.5000	0.039	12.663	0.000	0.422	0.578

--- Logistic Regression Coefficient ---
physical_inactivity: 1.5846