|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Correlations** | | | | | | | | | |
|  | | Athletics | Coastline (Km) (2018) | Temperature (1901-2016 [C]) | GDP (US Billion Dollar) | Elevation (Feet) | Status of Women | Democracy Index | Population |
| Pearson Correlation | Athletics | 1.000 | .263 | -.218 | .630 | -.074 | .271 | .226 | .171 |
| Coastline (Km) (2018) | .263 | 1.000 | -.300 | .167 | -.042 | .214 | .261 | .088 |
| Temperature (1901-2016 [C]) | -.218 | -.300 | 1.000 | -.224 | -.177 | -.574 | -.435 | -.012 |
| GDP (US Billion Dollar) | .630 | .167 | -.224 | 1.000 | .035 | .175 | .106 | .567 |
| Elevation (Feet) | -.074 | -.042 | -.177 | .035 | 1.000 | -.245 | -.228 | .164 |
| Status of Women | .271 | .214 | -.574 | .175 | -.245 | 1.000 | .723 | -.101 |
| Democracy Index | .226 | .261 | -.435 | .106 | -.228 | .723 | 1.000 | -.070 |
| Population | .171 | .088 | -.012 | .567 | .164 | -.101 | -.070 | 1.000 |
| Sig. (1-tailed) | Athletics | . | .001 | .006 | .000 | .203 | .001 | .005 | .026 |
| Coastline (Km) (2018) | .001 | . | .000 | .029 | .318 | .007 | .001 | .159 |
| Temperature (1901-2016 [C]) | .006 | .000 | . | .005 | .023 | .000 | .000 | .448 |
| GDP (US Billion Dollar) | .000 | .029 | .005 | . | .346 | .024 | .116 | .000 |
| Elevation (Feet) | .203 | .318 | .023 | .346 | . | .003 | .005 | .032 |
| Status of Women | .001 | .007 | .000 | .024 | .003 | . | .000 | .127 |
| Democracy Index | .005 | .001 | .000 | .116 | .005 | .000 | . | .215 |
| Population | .026 | .159 | .448 | .000 | .032 | .127 | .215 | . |
| N | Athletics | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Coastline (Km) (2018) | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Temperature (1901-2016 [C]) | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| GDP (US Billion Dollar) | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Elevation (Feet) | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Status of Women | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Democracy Index | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Population | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |

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| **Model Summaryd** | | | | | |
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Durbin-Watson |
| 1 | .630a | .397 | .392 | 145.986726910311920 |  |
| 2 | .669b | .448 | .439 | 140.241486201956520 |  |
| 3 | .687c | .473 | .460 | 137.583854611782360 | 2.038 |
| a. Predictors: (Constant), GDP (US Billion Dollar) | | | | | |
| b. Predictors: (Constant), GDP (US Billion Dollar), Population | | | | | |
| c. Predictors: (Constant), GDP (US Billion Dollar), Population, Coastline (Km) (2018) | | | | | |
| d. Dependent Variable: Athletics | | | | | |

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| **ANOVAa** | | | | | | |
| Model | | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 1778981.517 | 1 | 1778981.517 | 83.473 | .000b |
| Residual | 2706639.803 | 127 | 21312.124 |  |  |
| Total | 4485621.320 | 128 |  |  |  |
| 2 | Regression | 2007494.339 | 2 | 1003747.169 | 51.035 | .000c |
| Residual | 2478126.981 | 126 | 19667.674 |  |  |
| Total | 4485621.320 | 128 |  |  |  |
| 3 | Regression | 2119456.689 | 3 | 706485.563 | 37.322 | .000d |
| Residual | 2366164.631 | 125 | 18929.317 |  |  |
| Total | 4485621.320 | 128 |  |  |  |
| a. Dependent Variable: Athletics | | | | | | |
| b. Predictors: (Constant), GDP (US Billion Dollar) | | | | | | |
| c. Predictors: (Constant), GDP (US Billion Dollar), Population | | | | | | |
| d. Predictors: (Constant), GDP (US Billion Dollar), Population, Coastline (Km) (2018) | | | | | | |

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| **Coefficientsa** | | | | | | | | |
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | Collinearity Statistics | |
| B | Std. Error | Beta | Tolerance | VIF |
| 1 | (Constant) | 73.845 | 13.339 |  | 5.536 | .000 |  |  |
| GDP (US Billion Dollar) | .050 | .006 | .630 | 9.136 | .000 | 1.000 | 1.000 |
| 2 | (Constant) | 81.433 | 13.006 |  | 6.261 | .000 |  |  |
| GDP (US Billion Dollar) | .063 | .006 | .785 | 9.768 | .000 | .679 | 1.473 |
| Population | -2.864E-7 | .000 | -.274 | -3.409 | .001 | .679 | 1.473 |
| 3 | (Constant) | 75.030 | 13.028 |  | 5.759 | .000 |  |  |
| GDP (US Billion Dollar) | .061 | .006 | .757 | 9.508 | .000 | .665 | 1.503 |
| Population | -2.849E-7 | .000 | -.272 | -3.456 | .001 | .679 | 1.473 |
| Coastline (Km) (2018) | .001 | .001 | .160 | 2.432 | .016 | .972 | 1.029 |
| a. Dependent Variable: Athletics | | | | | | | | |