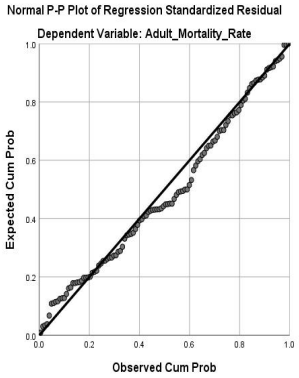


Fig. 14. Model-3: Normal PP plot

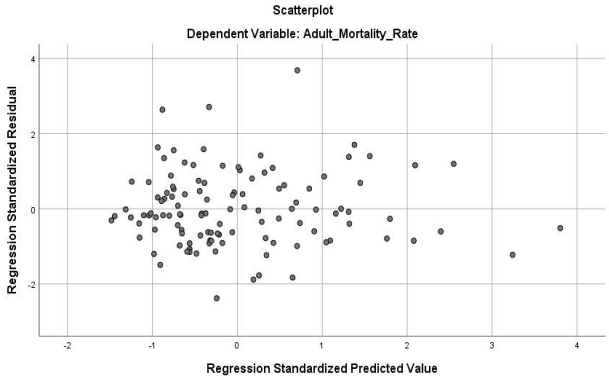


Fig.15. Model-3: Scatter Plot

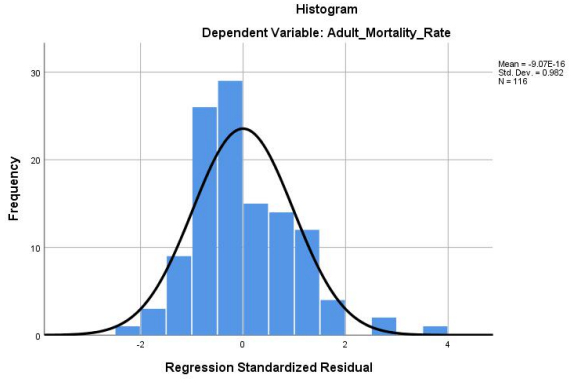


Fig. 16. Model-3: Normal Distribution for Residuals plot

**Coefficient Correlations[a]**

| Model | | | Log_GDP | Health_Expenditure | Average_Polio_Immunization | HIV_death_rate |
|---|---|---|---|---|---|---|
| 1 | Correlations | Log_GDP | 1.000 | -.064 | -.230 | .264 |
| | | Health_Expenditure | -.064 | 1.000 | -.044 | -.128 |
| | | Average_Polio_Immunization | -.230 | -.044 | 1.000 | .116 |
| | | HIV_death_rate | .264 | -.128 | .116 | 1.000 |
| | Covariances | Log_GDP | 54.779 | -.434 | -.588 | .068 |
| | | Health_Expenditure | -.434 | .838 | -.014 | -.004 |
| | | Average_Polio_Immunization | -.588 | -.014 | .119 | .001 |
| | | HIV_death_rate | .068 | -.004 | .001 | .001 |

a. Dependent Variable: Adult_Mortality_Rate

Fig.17. Model-3: Coefficients Correlations

**Coefficients[a]**

| Model | | Unstandardized Coefficients B | Unstandardized Coefficients Std. Error | Standardized Coefficients Beta | t | Sig. | Collinearity Statistics Tolerance | Collinearity Statistics VIF |
|---|---|---|---|---|---|---|---|---|
| 1 | (Constant) | 572.467 | 36.837 | | 15.540 | .000 | | |
| | Health_Expenditure | -2.349 | .916 | -.107 | -2.565 | .012 | .981 | 1.019 |
| | HIV_death_rate | .475 | .035 | .597 | 13.575 | .000 | .887 | 1.127 |
| | Average_Polio_Immunization | -1.440 | .345 | -.181 | -4.176 | .000 | .912 | 1.097 |
| | Log_GDP | -71.021 | 7.401 | -.429 | -9.596 | .000 | .860 | 1.163 |

a. Dependent Variable: Adult_Mortality_Rate

Fig.18. Model-3: Coefficients and their p- values

**Model Summary[b]**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Change Statistics: R Square Change | F Change | df1 | df2 | Sig. F Change | Durbin-Watson |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .900[a] | .810 | .803 | 40.11829 | .810 | 117.928 | 4 | 111 | .000 | 1.785 |

a. Predictors: (Constant), Log_GDP, Health_Expenditure, Average_Polio_Immunization, HIV_death_rate

b. Dependent Variable: Adult_Mortality_Rate

Fig.19. Model-3: Model Summary

**ANOVA[a]**

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | 759208.373 | 4 | 189802.093 | 117.928 | .000[b] |
| | Residual | 178651.925 | 111 | 1609.477 | | |
| | Total | 937860.298 | 115 | | | |

a. Dependent Variable: Adult_Mortality_Rate

b. Predictors: (Constant), Log_GDP, Health_Expenditure, Average_Polio_Immunization, HIV_death_rate

Fig.20. Model-3: ANOVA Table

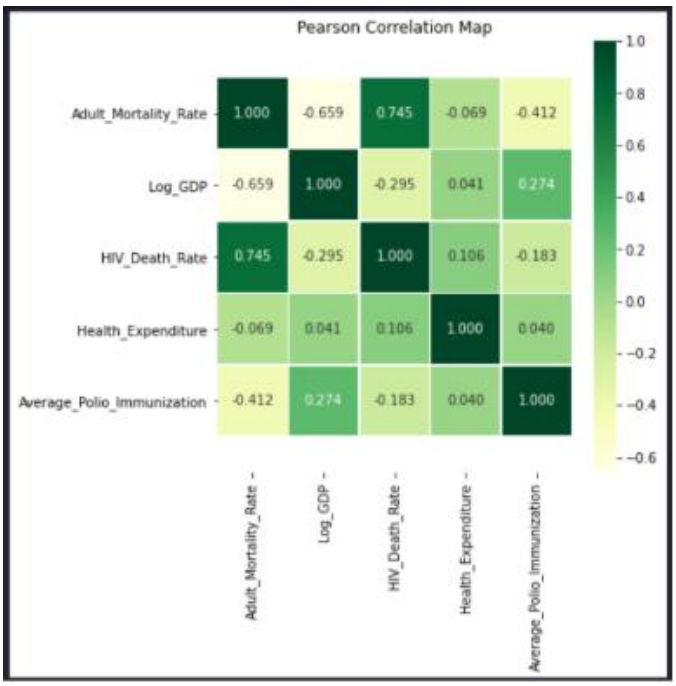


Fig.21. Model-3 :Pearson Correlation Heatmap(created using python)

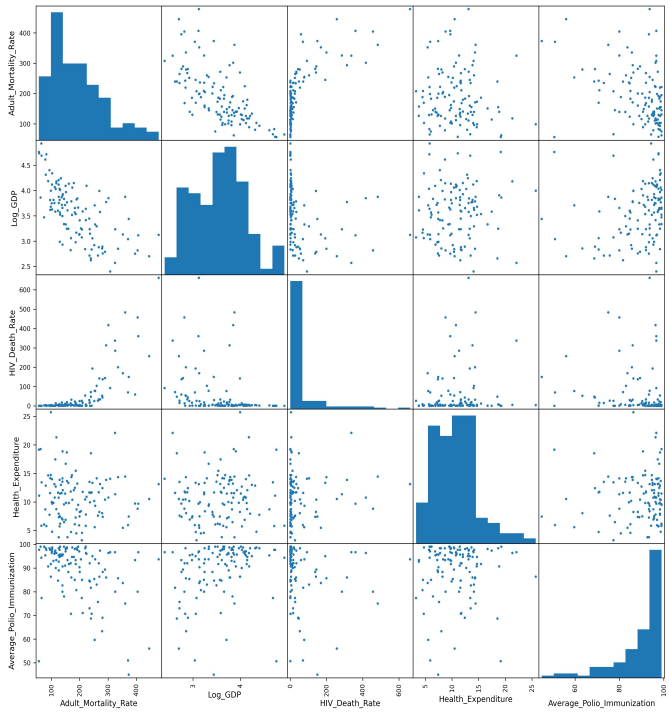


Fig.22. Model-3: Scatter plots of all independent variables with with dependent variable