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| --- | --- | --- | --- | --- | --- | --- |
| **Model Name** | **Number Of Variables** | **Software Used** | **Analysis** | **Method** | **Range** | **Best Use Cases** |
| Pearson | 2 | R Studio | Temperature Versus Rainfall | Correlation | -1 to 1 Linear Relation | Interval Scale Measurements |
| Spearman | 2 | R Studio | Temperature Versus Rainfall | Correlation | -1 to 1 | Ordinal Scale Measurements |
| Mann- Kendall | 2 | R Studio | Temperature Versus Rainfall | Regression | Monotonic Trends | Trend Analysis |
| Mann-Whitney U Test | 2 | R Studio | Temperature Versus Months | Comparison of two Independent Variables | Based on Truth Values | Test Of Population Medians |
| Robust Regression | 3 | R Studio | Standard Residuals Of Temperature And Rainfall in various years | Regression | Modelling highly fluctuating variables | Data contaminated with outliers |