# Correlation and Regression Tables

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index | Var1 | Var2 | Correlation | P\_value | CI\_Lower | CI\_Upper |
| cor | Weight | Length1 | 0.916 | 4.7496e-64 | 0.886 | 0.938 |
| cor1 | Weight | Length2 | 0.919 | 3.3951e-65 | 0.89 | 0.94 |
| cor2 | Weight | Length3 | 0.923 | 5.0232e-67 | 0.896 | 0.943 |
| cor3 | Weight | Height | 0.724 | 3.8423e-27 | 0.641 | 0.791 |
| cor4 | Weight | Width | 0.887 | 2.0382e-54 | 0.848 | 0.916 |
| cor5 | Length1 | Length2 | 1.0 | 1.2509e-238 | 0.999 | 1.0 |
| cor6 | Length1 | Length3 | 0.992 | 3.645e-143 | 0.989 | 0.994 |
| cor7 | Length1 | Height | 0.625 | 1.2303e-18 | 0.52 | 0.712 |
| cor8 | Length1 | Width | 0.867 | 2.2893e-49 | 0.822 | 0.901 |
| cor9 | Length2 | Length3 | 0.994 | 2.1511e-153 | 0.992 | 0.996 |
| cor10 | Length2 | Height | 0.64 | 9.8937e-20 | 0.538 | 0.724 |
| cor11 | Length2 | Width | 0.874 | 5.846e-51 | 0.831 | 0.906 |
| cor12 | Length3 | Height | 0.703 | 4.7456e-25 | 0.615 | 0.774 |
| cor13 | Length3 | Width | 0.879 | 3.0681e-52 | 0.837 | 0.91 |
| cor14 | Height | Width | 0.793 | 1.3475e-3 | 0.727 | 0.844 |

## Table 2: Correlation Matrix

|  |  |  |  |  |  |
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|  |  |  |  |  |  |
|  | Length1 | Length2 | Length3 | Height | Width |
| Length1 | 1.0 | 0.9995173 | 0.992031 | 0.6253779 | 0.8670497 |
| Length2 | 0.9995173 | 1.0 | 0.9941026 | 0.6404408 | 0.8735467 |
| Length3 | 0.992031 | 0.9941026 | 1.0 | 0.7034089 | 0.8785202 |
| Height | 0.6253779 | 0.6404408 | 0.7034089 | 1.0 | 0.792881 |
| Width | 0.8670497 | 0.8735467 | 0.8785202 | 0.792881 | 1.0 |

## Table 3: Single Row Correlation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Length1 | Length2 | Length3 | Height | Width |
| Row 1 | 0.9157117 | 0.9186177 | 0.9230436 | 0.7243453 | 0.8865066 |

## Table 4: Regression Analysis

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Predictor\_1 | Predictor\_2 | Predictor\_3 | R\_squared | AIC | BIC |
| Length1 | Length2 | Length3 | 0.8538 | 2024.49 | 2039.83 |
| Length1 | Length2 | Height | 0.8767 | 1997.39 | 2012.73 |
| Length1 | Length2 | Width | 0.8738 | 2001.1 | 2016.45 |
| Length1 | Length3 | Height | 0.8843 | 1987.22 | 2002.57 |
| Length1 | Length3 | Width | 0.8772 | 1996.76 | 2012.11 |
| Length1 | Height | Width | 0.8826 | 1989.66 | 2005.01 |
| Length2 | Length3 | Height | 0.8825 | 1989.68 | 2005.02 |
| Length2 | Length3 | Width | 0.8771 | 1996.85 | 2012.19 |
| Length2 | Height | Width | 0.8815 | 1991.03 | 2006.37 |
| Length3 | Height | Width | 0.8778 | 1995.92 | 2011.27 |