Neural Networks:

TanH Activation function with 6 nodes in the medial layer:

A screenshot of a computer

Description automatically generated

With Linear Activation Function:

A screenshot of a computer

Description automatically generated

The R squared is higher TanH activation function when compared to the linear activation function. The sum square error is lower for the TanH function. Therefore, I believe that the model TanH activation function is better than the model of Linear activation.

TanH Activation function using “Waist Circumstances” as a “X” factor:

A screenshot of a computer

Description automatically generated

Looking at the R square value it is noticeable that the TanH activation model does not improve much, since the R square value only increases by a couple of decimals.

TanH Activation Function with a second layer:

A screenshot of a computer

Description automatically generated

Looking at the second layer of the TanH activation function model, we can see that the R square value for the Training remains the same. However the one for the validations tends to decrease.