Overview of Polynomial Regression Example

Dataset Link:

<https://vincentarelbundock.github.io/Rdatasets/datasets.html>

(Find the dataset “pressure 🡪 Vapor Pressure of Mercury as a Function of Temperature”)

Dataset Content:

This dataset contains 3 columns. The first one is the index, the second one shows the temperature in degrees Celsius and the third one the vapor pressure of mercury in millimeters.

Problem:

We would like to be able to predict the vapor pressure levels of mercury given that we already know the temperature.

Solution:

We want to develop a regression model using Polynomial Regression algorithm which allows us to predict the vapor pressure levels of mercury based on temperature in degrees Celsius.

Variables:

Independent variables/ Predictors🡪 Temperature in degrees Celsius.

Dependent variable/Outcome Variable 🡪 Vapor pressure of Mercury.