Simple Linear Regression – Introduction

In supervised Machine learning, if we have a regression problem statement, we can solve it with the help of simple linear regression.

Suppose we have a dataset with features

1. Weight -> Independent or input feature

2. Height -> Dependent or output feature

Our model should be able to predict height based on weight

Whenever we have one input feature, we call it simple regression.

If we have multiple input feature, we call it multiple linear regression.

With the help of simple linear regression, we are trying to create a best fit line.

The sum of square of distance from the best fit line to the points should be minimal.

Whenever we get a new data, we see where it meets the best fit line and find the corresponding value on the other axis.

