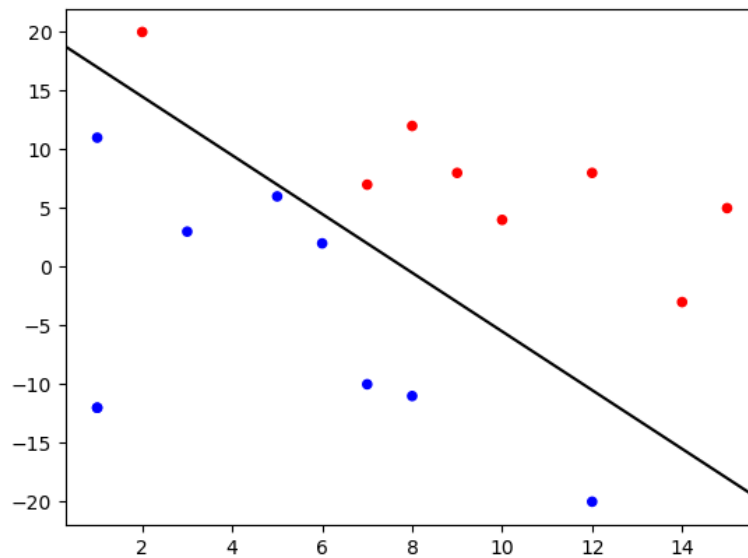


## 1. Perceptron Final Decision Boundary

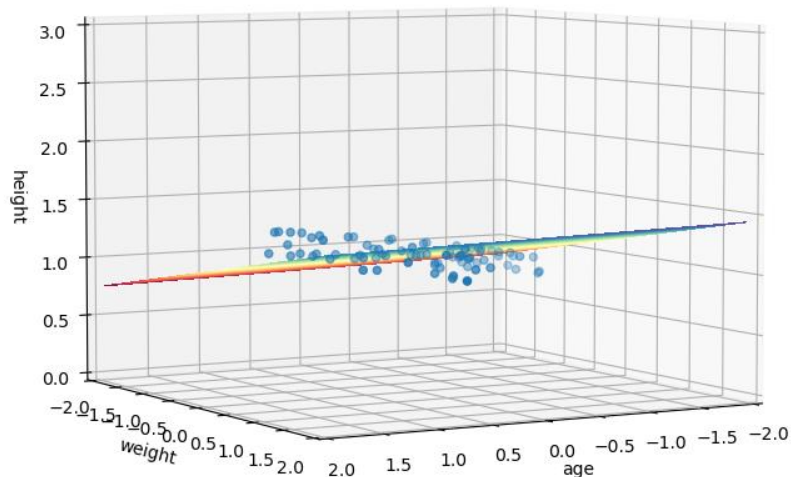


## 2. Linear Regression Model Visualization

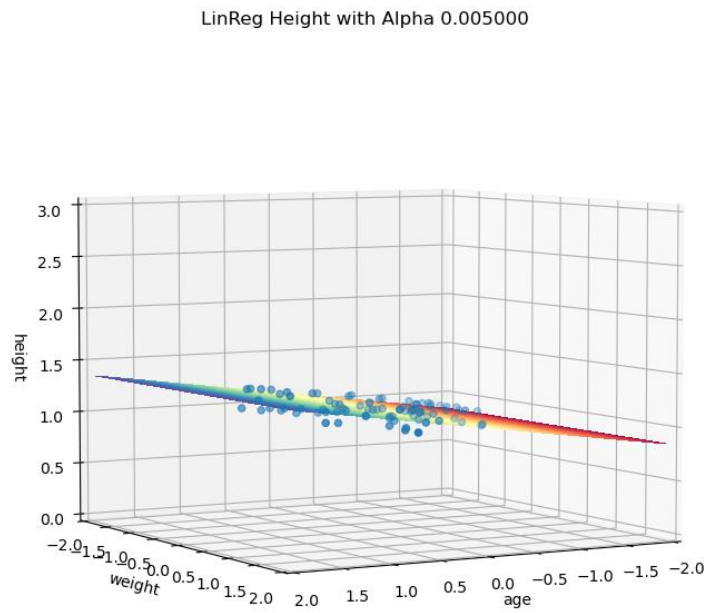
- I chose a learning rate of 0.005 and 1000 iterations as parameters for the 10<sup>th</sup> iteration. Based on the 3D visualizations of the models, the plane generated from learning rate of 0.005 seem to fit the data points most closely.

a. Alpha: 0.001, num\_iters: 100

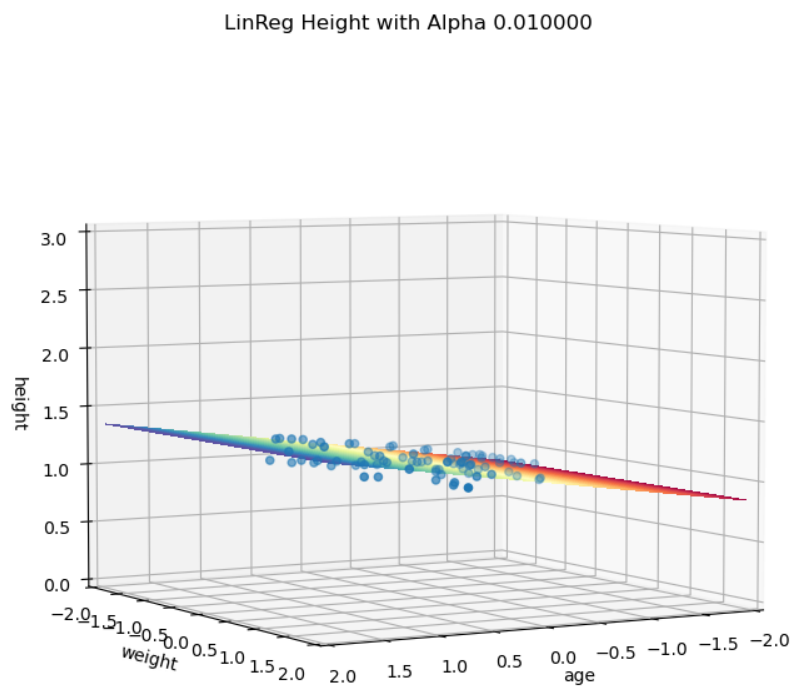
LinReg Height with Alpha 0.001000



b. Alpha: 0.005, num\_iters: 100



c. Alpha: 0.01, num\_iters: 100



d. Alpha: 0.005, num\_iters: 1000

LinReg Height with Alpha 0.005000

