DDP_Course_Project

Emma Wei Chen

2025-07-17

App Description

App Purpose

This application allows you to explore height prediction models using age.

How to Use

- 1. Choose an age using the slider bar
- 2. Submit

You could explore the difference between boys and girls using the tabs.

Data Source

Simulated data is obtained from the *child_growth* dataset in the *doBy* package.

```
library(doBy)
data("child_growth")
my_data <- child_growth
my_data$gender <- factor(my_data$gender)
male_data <- subset(my_data, gender == "boy")</pre>
```

Models

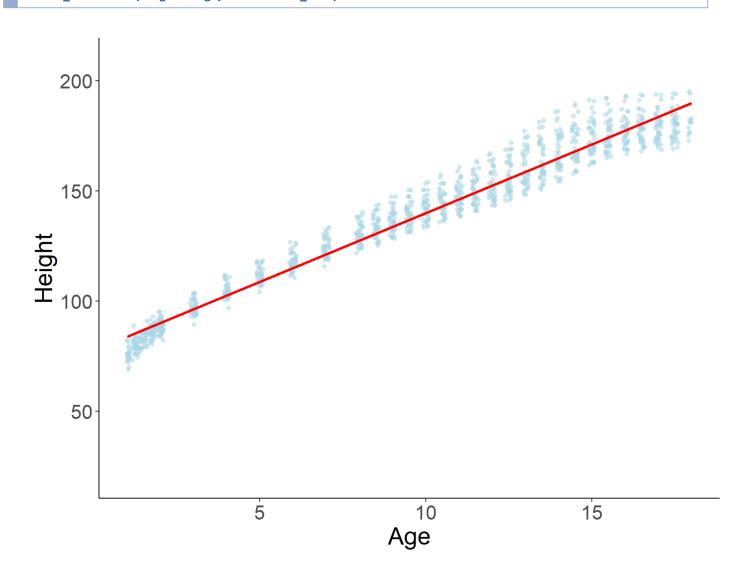
Two models are used to predict child height using age.

- I. Linear model
- 2. Logistic model

Model I: Linear model

Using male data as an example here. Model fitting indicated by the red line.





Model 2: Logistic model

Using male data as an example here. Model fitting indicated by the blue line.

