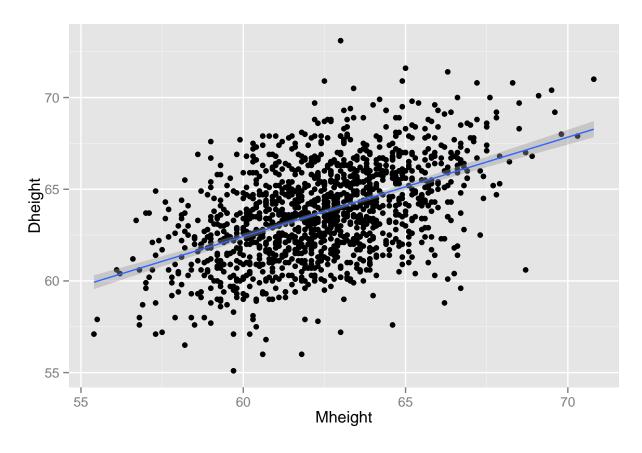
Fitted Regression Model Lines

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```
library(ggplot2)
#install.packages("alr3")
library(alr3)
#load Pearson-Lee data: collection of data, heights in inches of mothers
#and their daughters, on over 1100 families in England in the period 1893
#to 1898
ht <- heights
head(ht)
    Mheight Dheight
## 1
       59.7
             55.1
## 2
       58.2
               56.5
## 3
       60.6 56.0
       60.7 56.8
## 4
             56.0
## 5
       61.8
## 6
       55.5 57.9
#adding fitted regression model lines
#base plot with 95% confidence region
sp <- ggplot(ht, aes(x=Mheight, y=Dheight))</pre>
sp + geom_point() + stat_smooth(method=lm, level=0.95)
```



```
#fit logistic regression line
library(MASS) #for data
b <- biopsy
head(b)</pre>
```

```
ID V1 V2 V3 V4 V5 V6 V7 V8 V9
                                       class
## 1 1000025
                                      benign
                          1
## 2 1002945 5 4
                    5
                       7 10
                            3
                               2 1
                                      benign
                       2 2 3
## 3 1015425 3 1
                                      benign
## 4 1016277 6 8 8 1
                       3 4 3 7 1
                                      benign
## 5 1017023 4 1 1
                    3
                       2 1
                            3 1 1
                                      benign
## 6 1017122 8 10 10 8 7 10 9 7 1 malignant
```

