2017-04-10

Bryan Greener

Chad Hirsch

Jason Gunderson

Workshop Ch11

In this workshop B1 is Area and B2 is Forest

1. Find the estimates of B0, B1, B2
   1. B0= 40.62924
   2. B1= 0.56940
   3. B2= 0.23367
2. What is the predicted value when Area=50 and Forest=10
   1. 71.43573
3. What is the 95% predicted interval for the predicted value A=50 F=10
   1. 40.41294-102.4585
4. Test H0:B1=0vsHa:B1!=0 and the same test for B2.
   1. 0.0004613. Reject H0 as the P value is significant.
   2. 0.0015514. Reject H0 as the P value is significant.

data=read.csv("IBI.csv")

attach(data)

summary(data)

cor(data)

model1=lm(IBI~Area+Forest,data=data)

summary(model1)

newvalue=data.frame(Area=50,Forest=10)

newvalue

predict(model1,newvalue,se.fit=TRUE,interval="prediction" pred.level=0.95)

anova(model1)

detach(data)