Question 1: (Using the data fev.dat)

Use regression methods to look at the relationship between level of pulmonary function and other factors (e.g., age, height, and personal smoking) when considered separately and simultaneously. Assess the goodness of fit of the models you develop. Perform analyses for males and females combined (where gender is controlled for in the analysis), as well as gender-specific analyses.

**Variables:**

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| --- | --- |
| Age | The age of the subject in completed years |
| FEV | The forced expiratory volume, a measure of lung capacity, in litres |
| Ht | Height (in inches) |
| Gender | The gender of the subject:Females coded as 0, males as 1 |
| Smoke | The smoking status of the subject: 0 means a non-smoker; 1 means a smoker |