

**Table1 : Description of the Variables in the Breakfast Cereal Dataset**

| Variable        | Description                                                                        |
|-----------------|------------------------------------------------------------------------------------|
| <i>mfr</i>      | Manufacturer of cereal (American Home Food Products, General Mills, Kellogg, etc.) |
| <i>type</i>     | Cold or hot                                                                        |
| <i>calories</i> | Calories per serving                                                               |
| <i>protein</i>  | Grams of protein                                                                   |
| <i>fat</i>      | Grams of fat                                                                       |
| <i>sodium</i>   | Milligrams of sodium                                                               |
| <i>fiber</i>    | Grams of dietary fiber                                                             |
| <i>carbo</i>    | Grams of complex carbohydrates                                                     |
|                 |                                                                                    |

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| <i>sugars</i>   | Grams of sugars                                                                            |
| <i>potass</i>   | Milligrams of potassium                                                                    |
| <i>vitamins</i> | Vitamins and minerals: 0, 25, or 100, indicating the typical percentage of FDA recommended |
| <i>shelf</i>    | Display shelf (1, 2, or 3, counting from the floor)                                        |
| <i>weight</i>   | Weight in ounces of one serving                                                            |
| <i>cups</i>     | Number of cups in one serving                                                              |
| <i>rating</i>   | Rating of the cereal calculated by <i>consumer reports</i>                                 |

**Table 2: Description of Variables in the Boston Housing Dataset**

|          |                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------|
| CRIM     | Crime rate                                                                                            |
| ZN       | Percentage of residential land zoned for lots over 25,000 ft <sup>2</sup>                             |
| INDUS    | Percentage of land occupied by nonretail business                                                     |
| CHAS     | Does tract bound Charles River? (= 1 if tract bounds river, = 0 otherwise)                            |
| NOX      | Nitric oxide concentration (parts per 10 million)                                                     |
| RM       | Average number of rooms per dwelling                                                                  |
| AGE      | Percentage of owner-occupied units built prior to 1940                                                |
| DIS      | Weighted distances to five Boston employment centers                                                  |
| RAD      | Index of accessibility to radial highways                                                             |
| TAX      | Full-value property tax rate per \$10,000                                                             |
| PTRATIO  | Pupil-to-teacher ratio by town                                                                        |
| LSTAT    | Percentage of lower status of the population                                                          |
|          |                                                                                                       |
| MEDV     | Median value of owner-occupied homes in \$1000s                                                       |
| CAT.MEDV | Is median value of owner-occupied homes in tract above \$30,000 (CAT.MEDV = 1) or not (CAT.MEDV = 0)? |