

Data Description

The data set **PROS** contains 380 prostate cancer subjects from a study conducted at the Ohio State University Comprehensive Cancer Center. The goal of this project is to develop a logistic regression model that uses prognostic variables measured at a baseline exam to predict whether the tumor has penetrated the prostatic capsule. The codes for the variables are listed as follows:

Variable	Description	Codes/Values	Name
1	Identification Code	1 - 380	ID
2	Tumor Penetration of Prostatic Capsule	0 = No Penetration, 1 = Penetration	CAPSULE
3	Age	Years	AGE
4	Race	1= White, 2 = Black	RACE
5	Results of the Digital Rectal Exam	1 = No Nodule 2 = Unilobar Nodule (Left) 3 = Unilobar Nodule (Right) 4 = Bilobar Nodule	DPROS
6	Detection of Capsular Involvement in Rectal Exam	1 = No, 2 = Yes	DCAPS
7	Prostatic Specific Antigen Value	mg/ml	PSA
8	Tumor Volume Obtained from Ultrasound	cm3	VOL
9	Total Gleason Score	0 - 10	GLEASON