

Chapter 1: A Taxonomy of Problems

Modern Clinical Data Science
Chapter Guides
Bethany Percha, Instructor

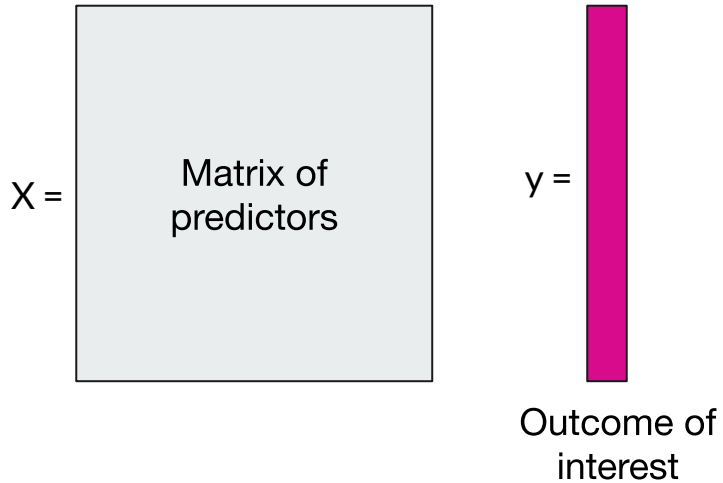


How to Use this Guide

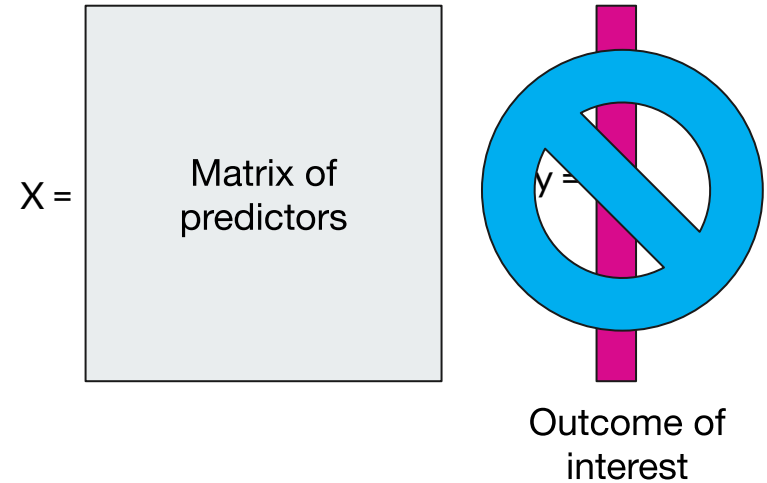
- Read the corresponding notes chapter first
- Try to answer the discussion questions on your own
- Listen to the chapter guide (should be 15 min, max) while following along in the notes

Question 1.1

How are items 7 – 8 and 14 different from the rest?



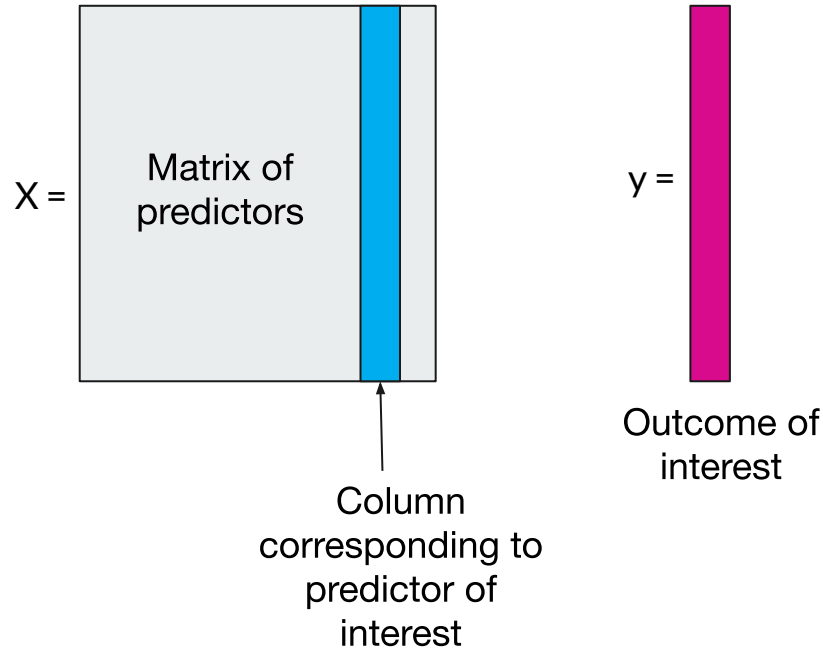
Supervised Learning



Unsupervised Learning

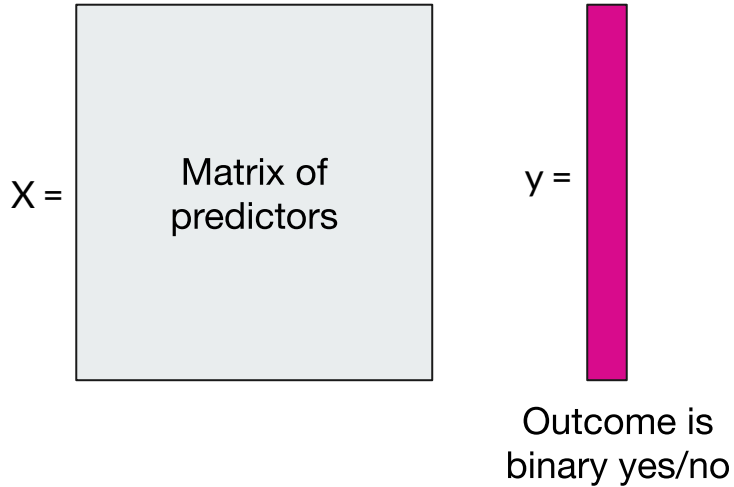
Question 1.2

How are items 1 – 6 similar to items 9 – 13 and how are they different?

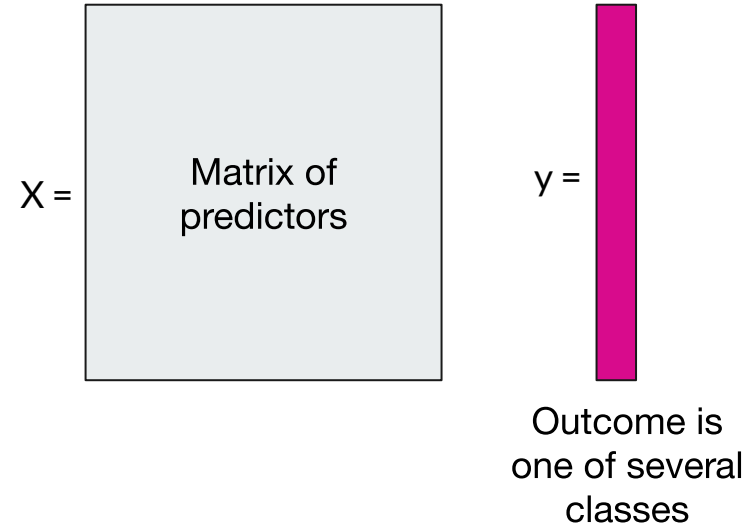


Question 1.3

How do items 1 – 3 differ from items 4 – 5 and how are they similar?



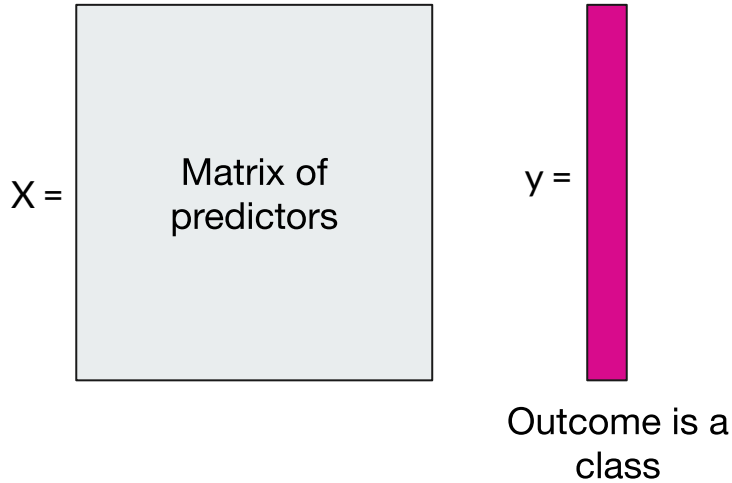
Binary Classification



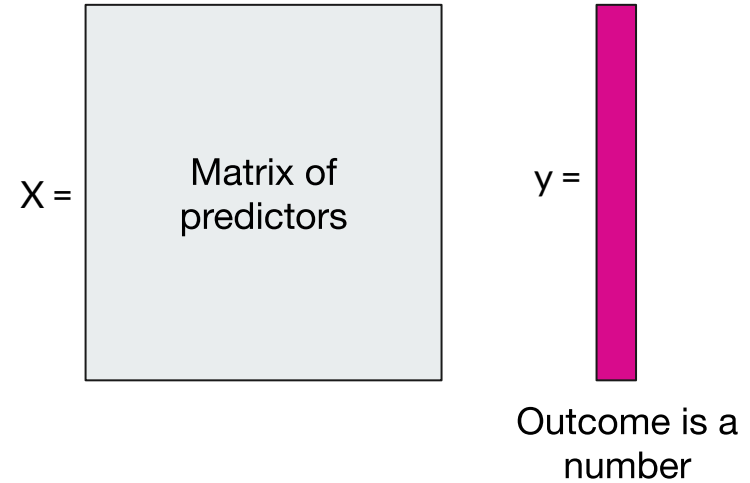
Multi-Class Classification

Question 1.4

How do items 1 – 3 differ from item 6? How is item 6 different from all of the other items?



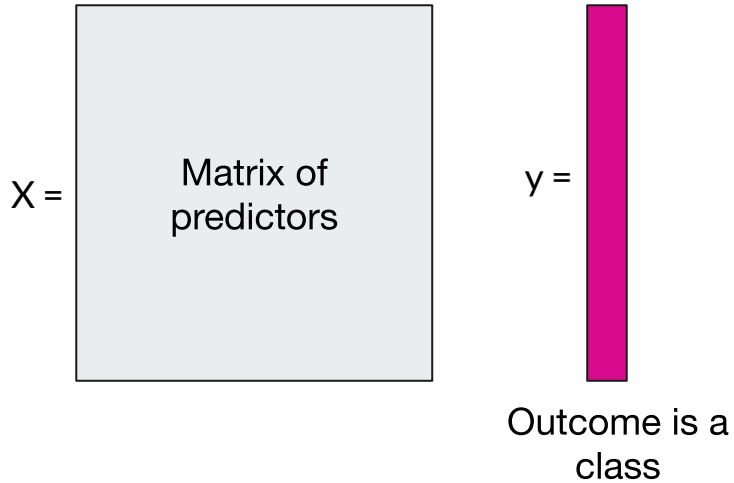
Classification



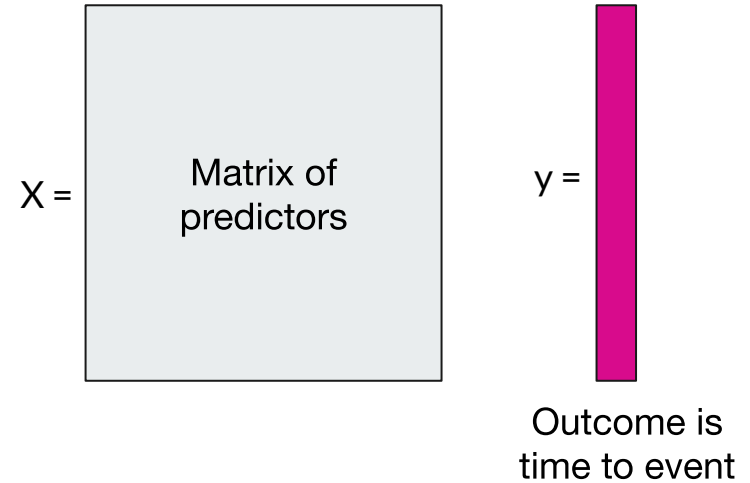
Regression

Question 1.5

How do items 9 – 11 differ from items 12 – 13?



Classification



Survival Analysis