Math 407: Statistical Machine Learning

Day 1

Activity

Write a formula to compute a student's final course grade if the following grading scheme is used:

- 15% Homework
- 15% Quizzes
- 50% Midterms
- 20% Final Exam

Course grade = $0.15hw + 0.15q + 0.5m + 0.2f$

Prediction model for course grade (%) from first quiz score (%)

$$\widehat{course} = 62.07 + 0.2132(quiz\ 1)$$

Training dataset

Scatterplot of Scores from 50 students