

Worksheet 3 — Landscape of machine learning

1. For each of the following prediction tasks, state whether it is best thought of as a *classification* problem or a *regression* problem.
 - (a) Based on sensors in a person's cell phone, predict whether they are walking, sitting, or running.
 - (b) Based on sensors in a moving car, predict the speed of the car directly in front.
 - (c) Based on a student's high-school SAT score, predict their GPA during freshman year of college.
 - (d) Based on a student's high-school SAT score, predict whether or not they will complete college.