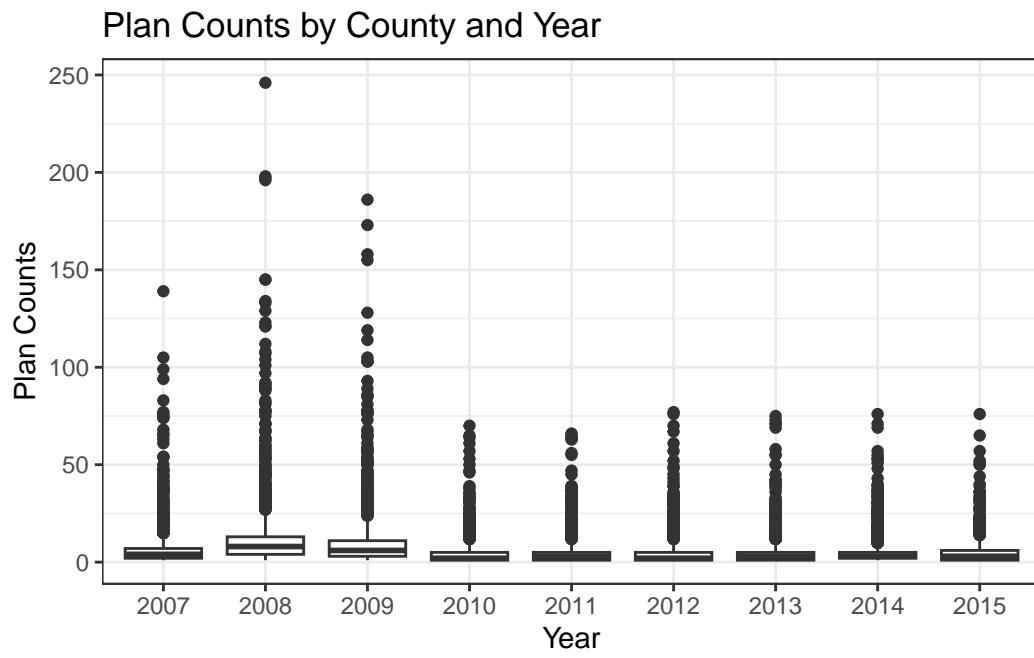# Homework 4

Varun Saxena

```
Loading required package: pacman
```

1

.

## Plan Counts by County and Year

2

.

## Distribution of Star Ratings in 2010, 2012, and 2015

3

.

## Average Benchmark Payment from 2010 to 2015
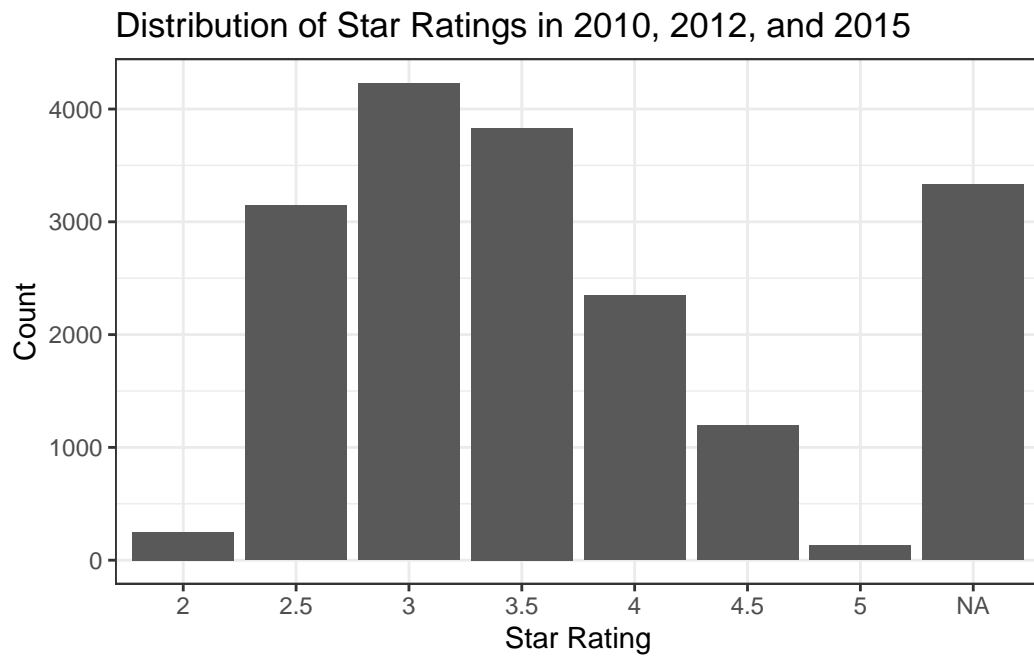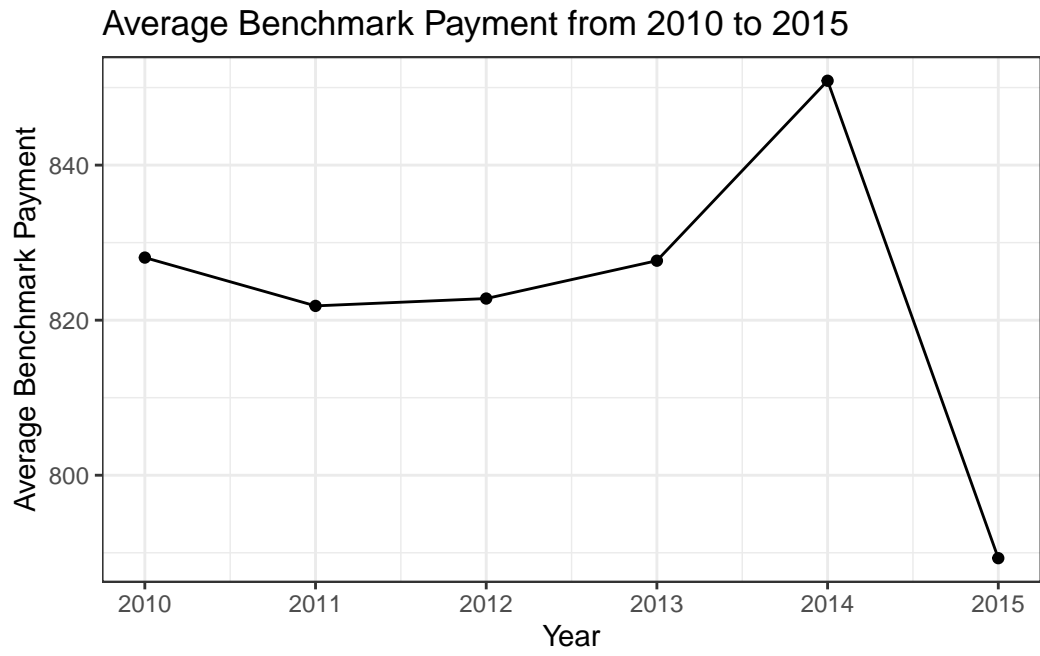
4

.

Warning: Removed 2 rows containing missing values (`geom_line()`).
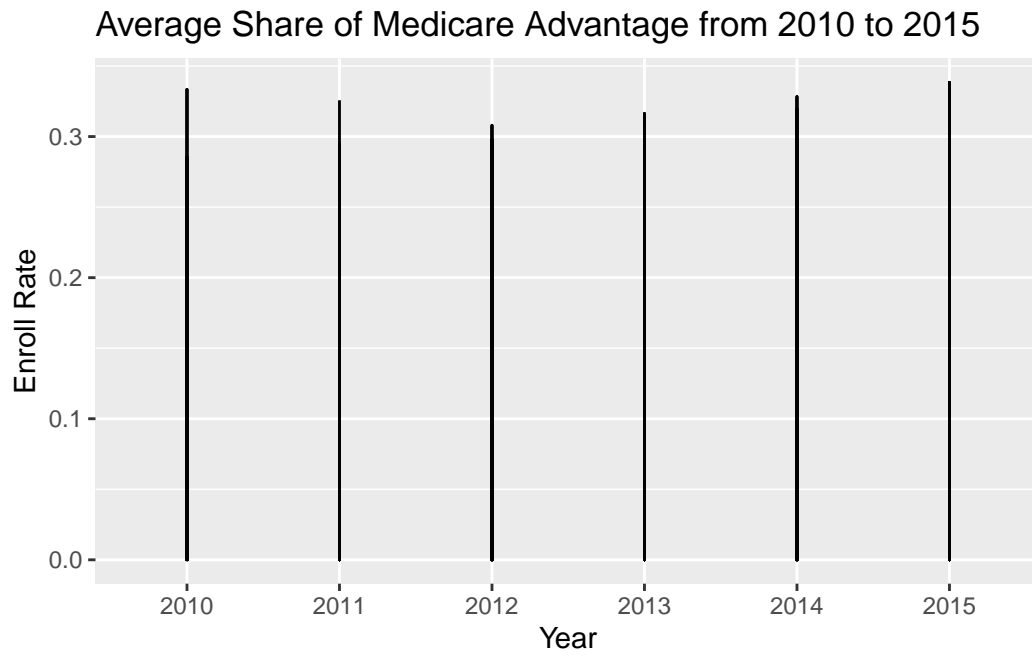
## Average Share of Medicare Advantage from 2010 to 2015

5

.

| star_rating | number_of_plans |
|---|---|
| 1.5 | 8 |
| 2.0 | 461 |
| 2.5 | 962 |
| 3.0 | 1016 |
| 3.5 | 624 |
| 4.0 | 134 |
| 4.5 | 8 |

6

.

| bandwidth | estimates |
| --- | --- |
| 0.2 | 0.0100824 |
| 0.125 | -0.0155207 |
| 0.125 | -0.0124915 |

| bandwidth | estimates |
| --- | --- |
| 0.2 | 0.0100824 |
| 0.125 | -0.0155207 |
| 0.125 | -0.0124915 |

7

.

| bandwidth | estimates |
|-----------|-----------|
| 0.1 | 0.0100824 |
| 0.12 | -0.0101962 |
| 0.13 | -0.0124915 |
| 0.14 | -0.0097920 |
| 0.15 | 0.0074747 |

| bandwidth | estimates |
|-----------|-----------|
| 0.1 | 0.0100824 |
| 0.12 | 0.0355707 |
| 0.13 | 0.0162561 |
| 0.14 | 0.0199033 |
| 0.15 | 0.0099588 |

8

.

Warning: `position_stack()` requires non-overlapping x intervals

## Distribution of Raw Scores

9

.
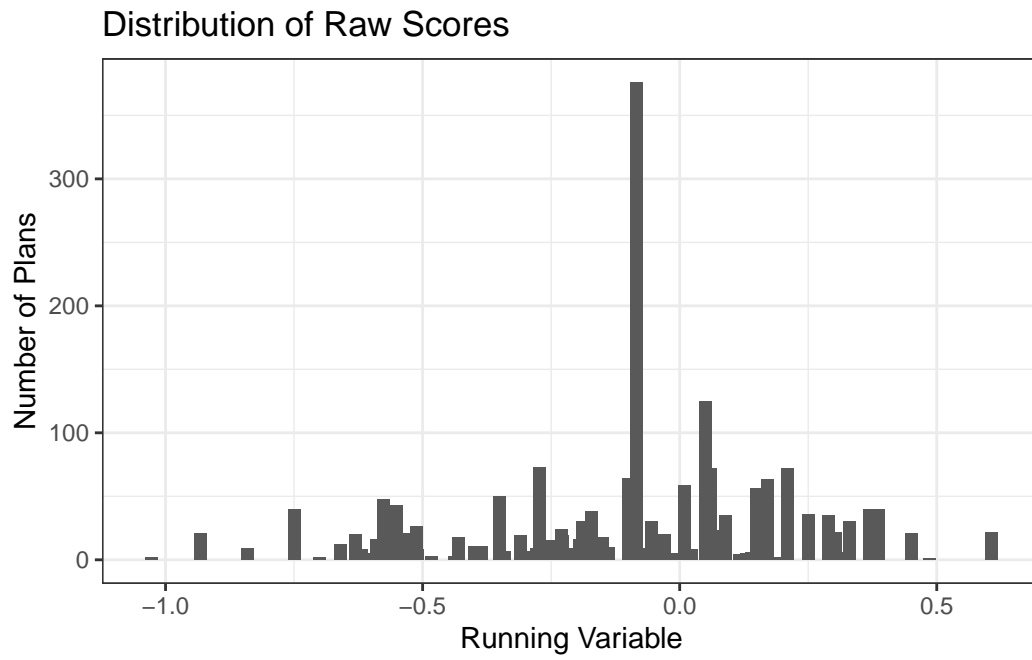
| | 27267.072341835 |
|---|---|
| 27187.0846681921 | 1 |

| | 27022.0562050243 |
|---|---|
| 28124.715647642 | 1 |

10. Based on the results, there seems to be a concentration of enrollments for medium star rating programs. There were few enrollments on the super high and super low end.