Project in Probabilistic Models

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First round

- I created a modular system where I could evaluate many different predictors to get an idea about their performance.

Predictor: class tade.propromo.predictor.DuvinsPredictor with 1000 rows.
Predictor: class tade.propromo.predictor.RoundTwoPredictor with 1000 rows.
Predictor: class tade.propromo.predictor.ThirdRoundPredictor with 1000 rows.
Baseline is: -438997.1694. RoundTwoPredictor got -85700.2709 and ThirdRoundPredictor got: -73556.3926.

- In the end I used a zero predictor for the first round after spending all my time on maven and docker. (With a score of -284 229)

Second round

- First I converted all non zero values to x and searched for patterns, but sadly there weren't any.
- I then calculated the zero probabilities for each column and noticed that positions 16 (0.2718) and 50 (0.2636) look interesting.
- I ended up calculating smoothed probabilities for each value in each position. (score of -89 150)

Third round

- I made a matrix on how well a non zero value in each position predicts a non zero value in the following positions.
- I created a class called “Peak” to group values that are close together.
- In the end I ended up using the same predictor from the second round. (score of -74 389)

Thoughts

- I learned some real world skills.
- I got some laughs from an old flame war on TDD and sudoku.
- Predicting exact values was hard.