

I Choose You

An Adventure into the World of Competitive Pokémon

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How do you Choose a Team

- Over 216 Quintillion combinations¹
- How can we better our chances of winning?

Use teams similar to ones that have already won

¹Kotaku Numbers: Possible Different Teams in Pokémon is Endless

How we Did It

Naïve Bayes

- Maps well to our problem
 - Clear Winner and Loser classes
- Supervised
 - Know the outcomes of the battles

Two Main Databases

Serebii.net

- Pokémon
- Attacks
- Items

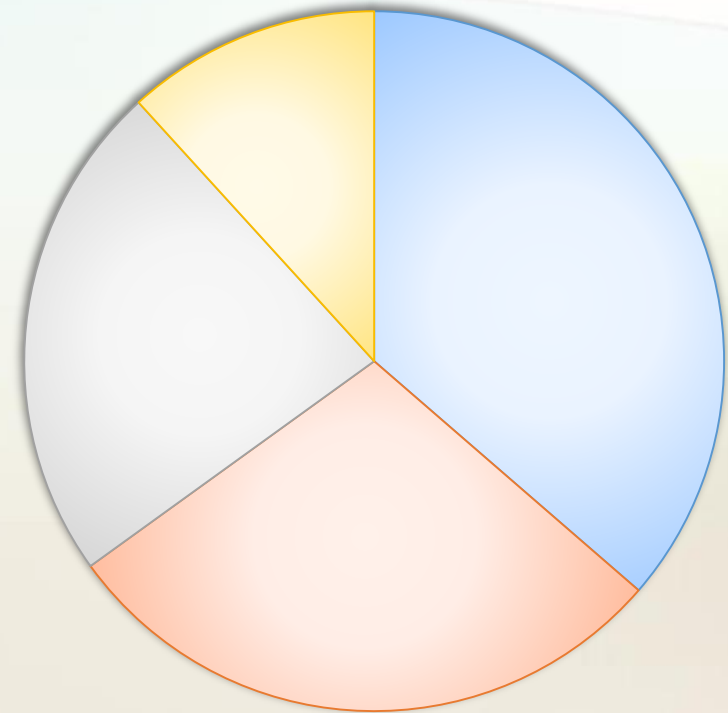
Smogon.com

- Battles Records
- Battle Tiers

Results

- High number of False Positives
- Low number of False Negatives
- F1 Score: 0.643

Mean Distrubution of Results



■ True Positive ■ False Positive ■ True Negative ■ False Negative

Final Thoughts

Summary

- If the predictor says the team is bad, find a new team
- Strategy plays an important role in Battle

Room For Improvement

- Greatest Challenge:
 - Sparse Data
- False Positives:
 - Too many sparse features
 - Over fitting