

Will a bill pass the Illinois legislature?

By Willy Raedy

A large, dark blue, diagonal shape that starts from the bottom left and extends towards the top right, covering the lower half of the page.

- Senator introduces a bill

First Reading

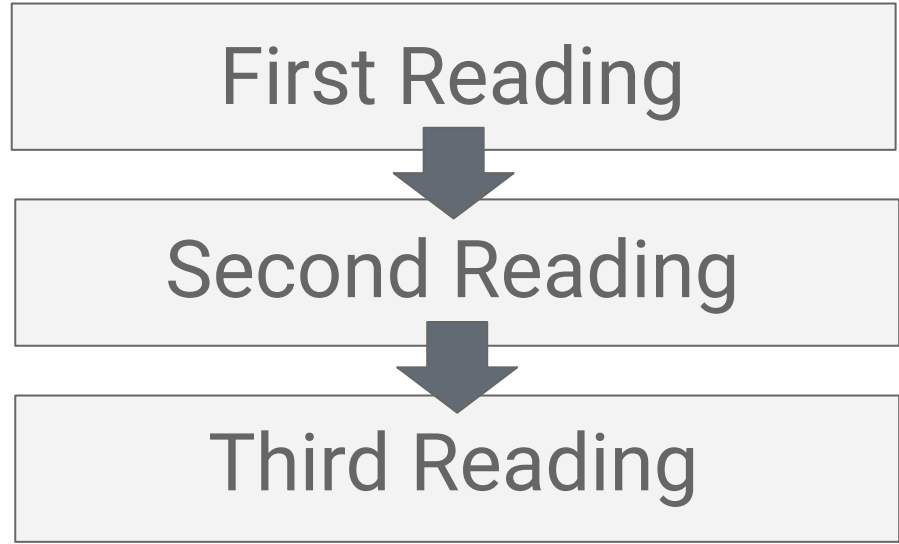
- Bill makes it out of committee

First Reading



Second Reading

- Senate votes on the bill





```
graph TD; A[First Reading] --> B[Second Reading]; B --> C[Third Reading]; C --> D[Goes to House]; D --> E[Governor];
```

First Reading

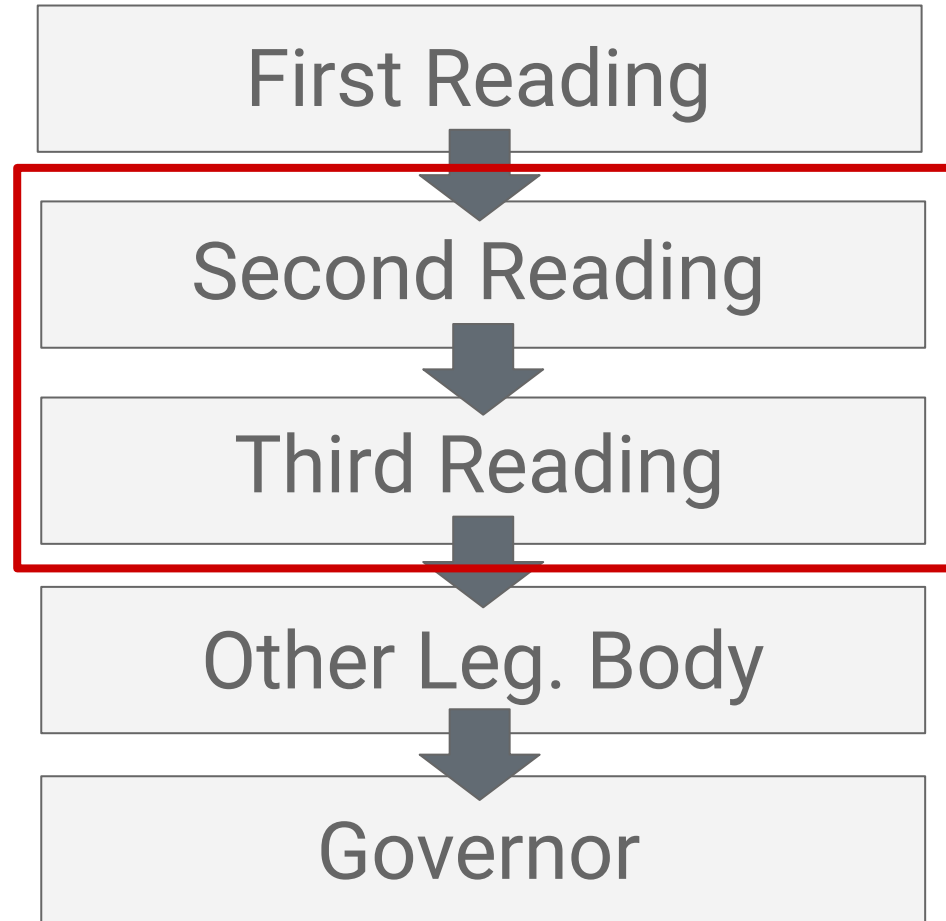
Second Reading

Third Reading

Goes to House

Governor

- Limit to Democratic bills
- 20% of bills fail this step



Data

Bill

(readings, subject, cost)

Legislative

(co-sponsors, bipartisan)

Author

(years in office, fundraising)

Community

(hearings, witness slips)

Data

Bill

(readings, subject, cost)



Legislative

(co-sponsors, bipartisan)



Author

(years in office, fundraising)

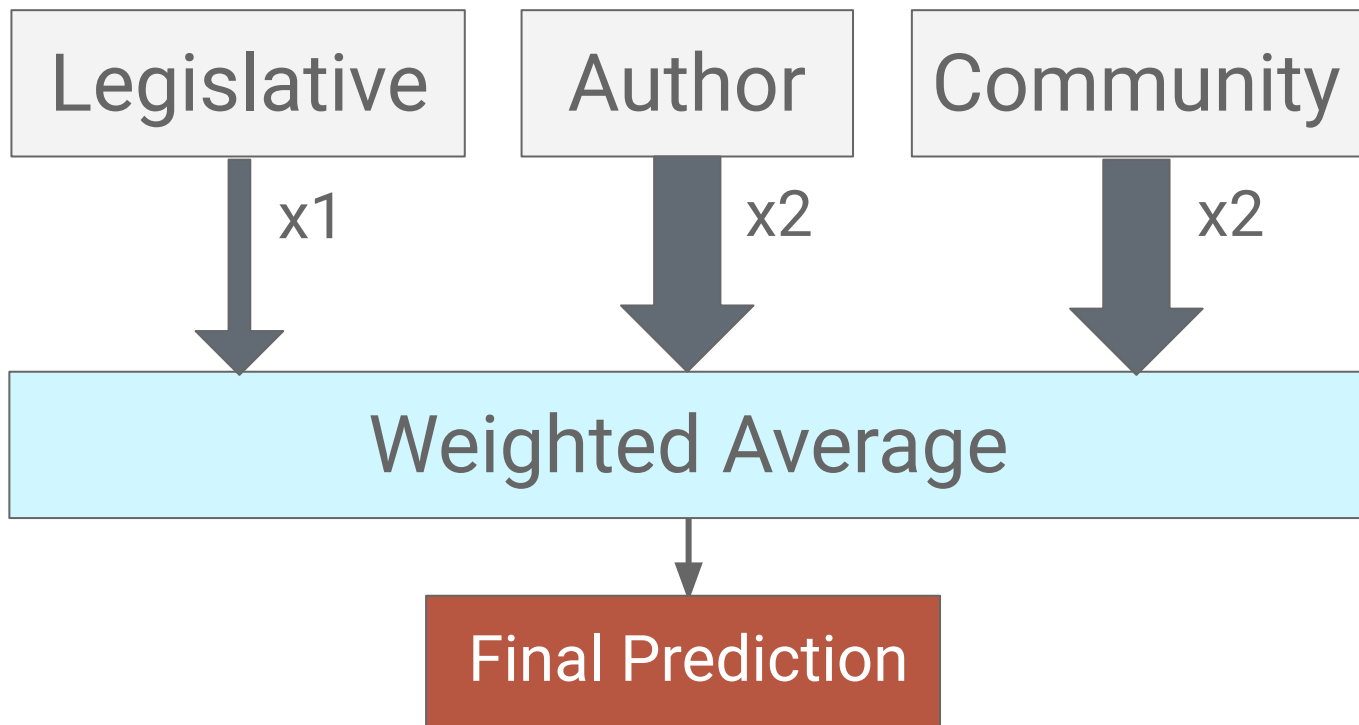
BALLOTPEDIA

Community

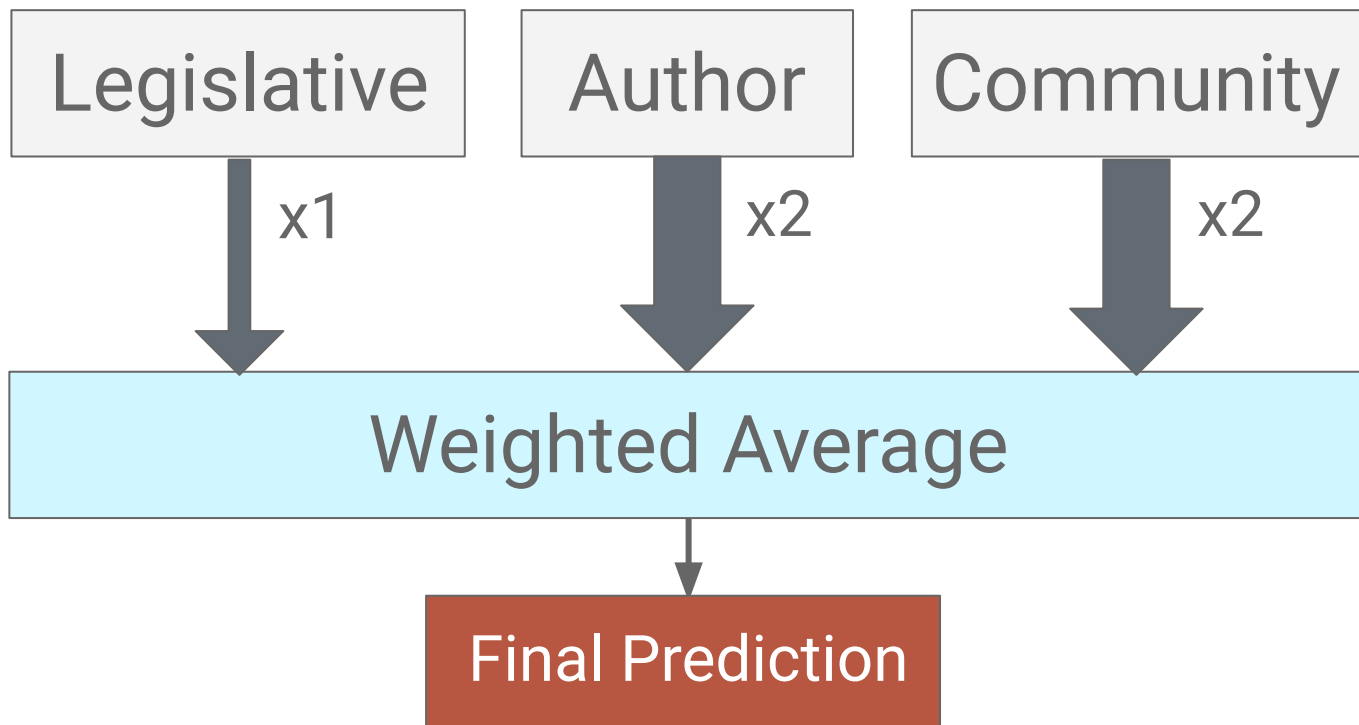
(hearings, witness slips)



Model



Model



Metrics

- ROC: 0.68
- Acc: 54%
- Prec: 92%
- Rec: 48%



Not highly likely. However, 80% of bills get a vote so there is still a good chance.

Number of Co-sponsors: 2



Number of Witness Slips: 5



☒ Has a Republican Co-Sponsor?

Percent Supporting: 80



Who is the author?: Don Harmon



Model

Model	Feature	Change in Odds	Key Threshold	Relative Importance
Author	Funding Level	--50%		
	Is Comm. Chair	--33%		
	Num. Terms	--25%		
Hearing	Num. Slips		< 5	50%
	Perc. Support		> 97%	50%
Legislature	Num. Co-sponsors	--2%		
	Bipartisan?	+10%		

Take Aways

- Model finds “trivial” bills
 - Correct: 4.6 (+/- 10) nay votes
 - Missed: 8 (+/- 15) nay votes
- Not all bills are equal
- Confident in “Yes” predictions

Take Aways

- Model finds “trivial” bills
 - Correct: 4.6 (+/- 10) nay votes
 - Missed: 8 (+/- 15) nay votes
- Not all bills are equal
- Confident in “Yes” predictions
- Limited causal value
 - Even small amounts of near unanimous support is impactful
 - Bipartisan support helps

Questions?