**Noory Okthariza**

**GVPT729A MLE**

**Phase 2 Project**

* **Dependent Variable**: Elected (1) or not (0)

I use a binary variable indicating whether a candidate was elected in Indonesia’s 2024 open-list PR system, provincial-level legislative election. The data comes from the official election recap provided by the election commission. I scraped the data directly from the official website (<https://pemilu2024.kpu.go.id/>)

* **Hypotheses and Independent Variables**
* **Hypothesis 1**

The higher candidates are listed on the ballot (e.g. in positions 1 or 2 as opposed to positions 9 or 10), the greater the likelihood of being elected.

* **Hypothesis 2**

A bigger district magnitude increases the likelihood of female candidates being elected.

* **Independent Variables**
  + Candidate list position on the ballot (ordered lists from 1 to 12)
  + The size of district magnitude (ranging from 3 to 12).
* **Discussion**

The best way to explain the relationships among my variables is through a simple bar plot. Because there are quite a few data points for my independent variables, graphical information makes the relationships much easier to follow. This allows readers to make a more meaningful and direct comparison as opposed to when the information is presented in a tabular format (which I think takes more time to process).

The first plot clearly supports my first hypothesis: the number of candidates elected from higher list positions far exceeds those from lower positions. This holds true for both men and women candidates. However, the interpretation of the second hypothesis is somewhat ambiguous. There is indeed a higher likelihood of women being elected as district size increases, particularly when district seats range from 6 to 8. But the probability of election fluctuates when district size varies from 9 to 12. Districts with 3 to 5 seats show a much lower frequency of women being elected, suggesting a more competitive nature in smaller districts. The top three districts with the highest frequencies of women elected are those with 8, 7, and 10 seats.

A graph with red and blue bars

Description automatically generated

A screenshot of a phone

Description automatically generatedA graph of a number of women's election

Description automatically generated