

Survey on the outcome of Sri Lankan Presidential Election, 2019

Research Question:

How the four major presidential candidates will fare across seven categories of current issues that voters will vote on.

Members

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Introduction

This is an analysis of a survey that was conducted to identify how votes will be cast for the four “leading” candidates of the Sri Lankan presidential election of 2019, and to gauge voter opinion on the most pressing issues that influence their choice. The purpose of this research is to identify the most pressing issues that the society needs answers and get a weight of Each issue according to the publics’ opinion. Then use this weight in related to rank the individuals who has the best answers/expertise of the issue areas. Finally, rank each individual in related to the issue to compare/contrast with their choice of voting.

Result and Analysis

The collected data was individually analysed and graphs were created to get visual insight of the data. The research collects data related to the priority of seven major issues (national security, national development, cost of living and unemployment, etc.) that the public needs answers/need more focus from the next president. The percentage value/weight that each question has scored for this question is then used in the next stage of the analysis.

In the next stage, the statistics from the responses that collect the expertise of the candidate in each of the above issue areas is summarised. Two issue areas 'Ethnic issues' and 'Religious issues' were combined so that only six separate questions were asked from the public for the seven issue areas, during the data collection. Therefore equal weights were given to those two issues in the final statistics.

Then, the priority of a particular issue and the value gained from the candidate for that issue area is multiplied across all seven and the sum was taken as the final value of a candidate.

Ex: Priority of national development - p_1

Candidate A's weight for national development question - w_1

Let the p_2, p_3 be the priority of other issue areas and w_2, w_3 be the weight values of the same candidate,

$$\text{Final result} = \sum p_1 * w_1 + p_2 * w_2 + \dots + p_7 * w_7$$

The final result plot 'finalResults.jpg' has this final weighted results and the 'vote_summary.jpg' has the public opinion on voting candidate.

Conclusion

The individuals' voting choice has a same pattern of distribution with the final weighted results derived from the voters opinion related to the seven most pressing issues. The final results implies that the presidential candidate 'Nandasena Gotabaya Rajapaksa (Sri Lanka Podujana Peramuna)' has the highest probability of winning the presidential election 2019.

Discussion

The major impact on the results of this survey is the data bias and the sample size. With reduced sample bias the results can be more generalized.

Resources

Git repository:

<https://github.com/Miyuru-Genesiis/election-survey.git>