

# URBAN/SEMI- URBAN AND RURAL PRIMARY SCHOOL ATTENDANCE

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Chakaya Nyamvula



# Motivation

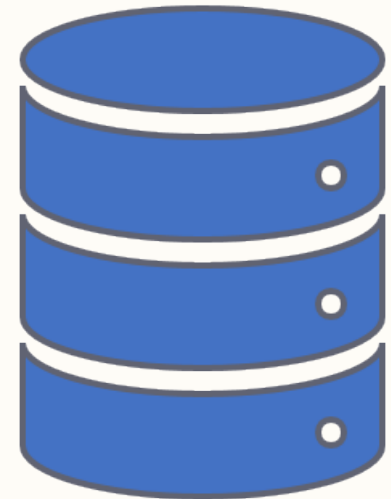
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- Many people may have the thought that most children who attend primary school are from urban areas. The purpose of this project therefore would be to prove whether or not this indeed is the case
- Through various ways of analyzing the data we will get to see the ratio between primary school attendance in the rural areas compared to that in urban/semi-urban areas. This way improvements can be made to equalize the attendance.

# Dataset(s)

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- The dataset used in the project was [primary.csv](#) which included mainly numerical values that described the number of pupils per county.
- The dataset included various attributes and columns which are:
  - County -47 entries
  - urban\_semiurban\_boys\_number -47 entries
  - urban\_semiurban\_girls\_number -47 entries
  - urban\_semiurban\_total\_number -47 entries
  - rural\_boys\_number -47 entries
  - rural\_girls\_number -47 entries
  - rural\_total\_number -47 entries





# Research Question(s)

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- The research question in this project is “Do urban/semi-urban pupils tend to have a higher school attendance ? ” .

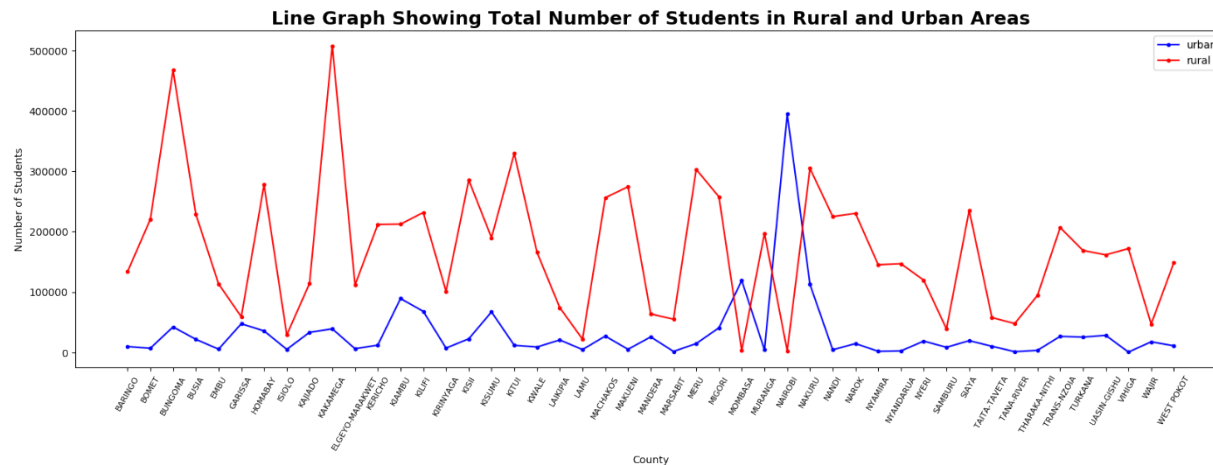


# Methodology

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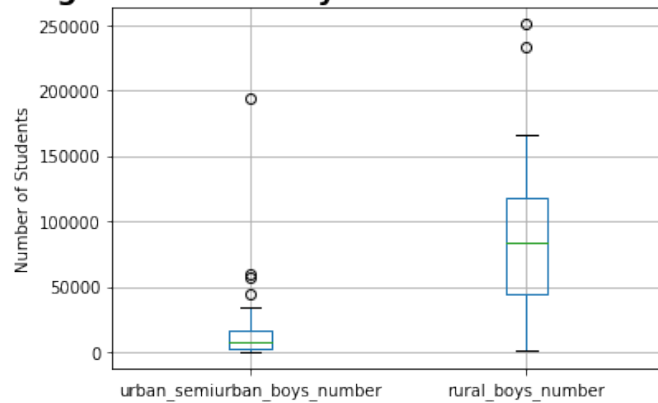
- Different methodologies were used to produce conclusive answers for the research questions.
- These methodologies include use of scatter plots, box plots and graphs to compare mostly two variables/data entries.

# Findings

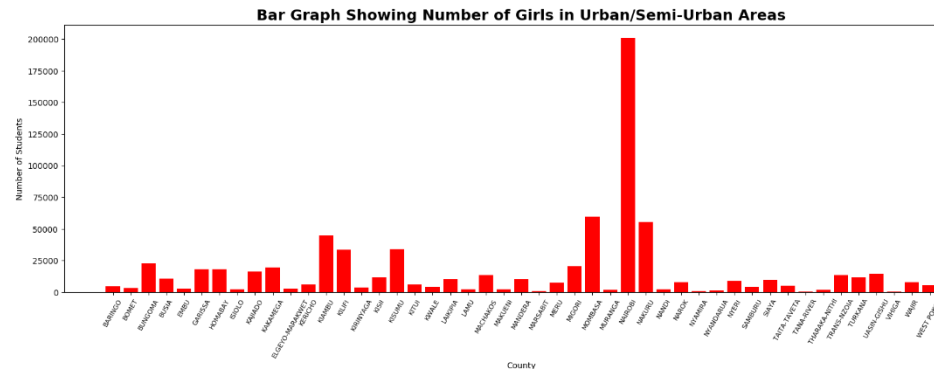
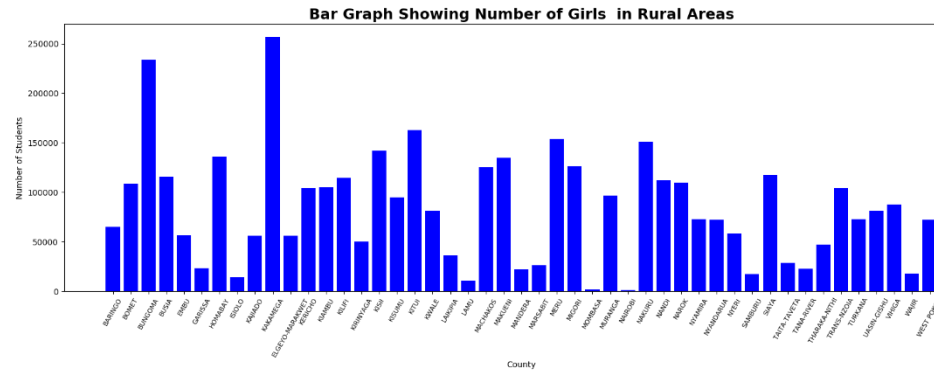


- After proper analysis of the data the following conclusions were drawn
- Pupils from rural areas in majority of the counties have a higher attendance than those from urban/semi-urban areas.

**Box Plot Showing Number of Boys in Rural Areas and Urban/Semi-Urban**



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- According to gender there are more boys that go to school in rural areas than in urban/semi-urban areas per county.



- The same applies for girls who attend primary school .The attendance in primary school is higher in rural areas than in urban/semi-urban areas.
- Through my findings we can conclude that rural areas have a higher primary school attendance than urban/semi-urban areas.
- This therefore goes contrary to the research question that was “Do urban/semi-urban areas tend to have a higher a primary school attendance?”.





# Limitations and Challenges

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- Some of the challenges faced during the analysis were ; minimal data to do conclusive analysis as well as difficulties in visual representation of the data that is coming up with extremely large visuals.
- Limitations of the findings were minimal data that may have in turn affected my conclusions of the data.



# References

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- <https://www.simplilearn.com/data-visualization-in-python-using-matplotlib-tutorial>
- <https://www.kdnuggets.com/2019/04/best-data-visualization-techniques.html>