Registered Voter Participation in Union County, NC

Max Steele (they/them)



PURPOSE: Explore and Analyze Voter Turnout

Explore

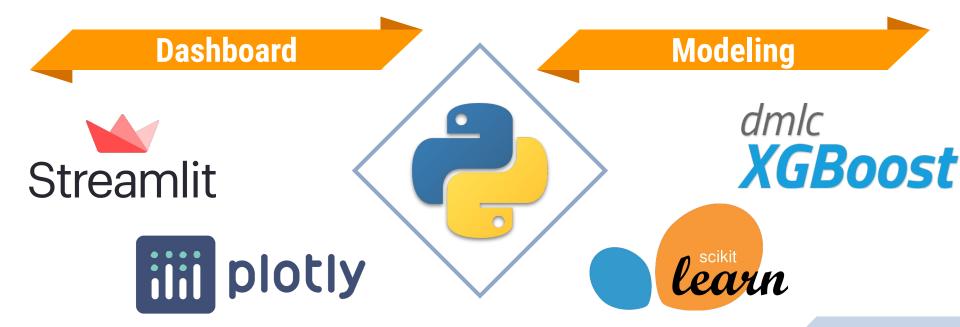
- 2012, 2016, and 2020 elections
- Create an interactive dashboard
 - Voter history and registration data
 - Organizing to drive voter turnout very locally

Analyze

- Use machine learning to investigate relationships between
 - Voter demographics
 - Voter participation
- Built models to predict Vote or No Vote



TECHNOLOGIES





CHALLENGES



- Duplicate records
- Filtering out voters for each election
 - Registration date
 - Age



Modeling

- Limited to 8 categorical features
- Low model accuracy



Streamlit Layout

- Pros:
 - All Python code
 - Easy to deploy
- Cons:
 - Limited stylistically and organizationally

Thank you! Questions?



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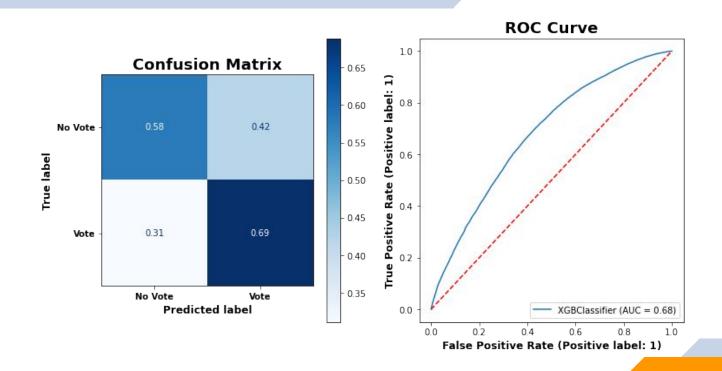


Github: github.com/zero731

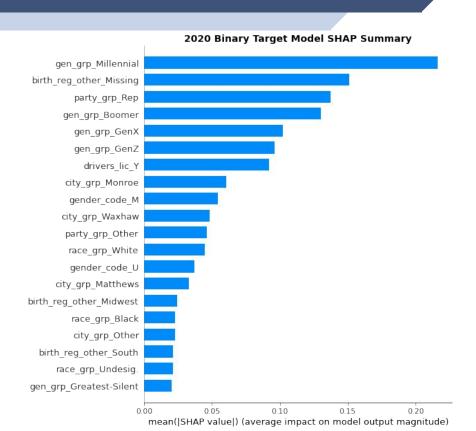


LinkedIn: www.linkedin.com/in/max-steele-0731

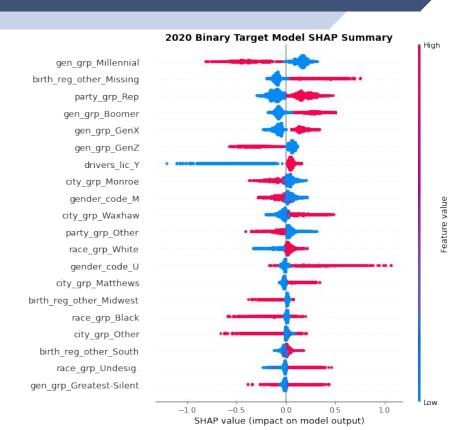
Appendix I - Best 2020 Model: 66% Accuracy



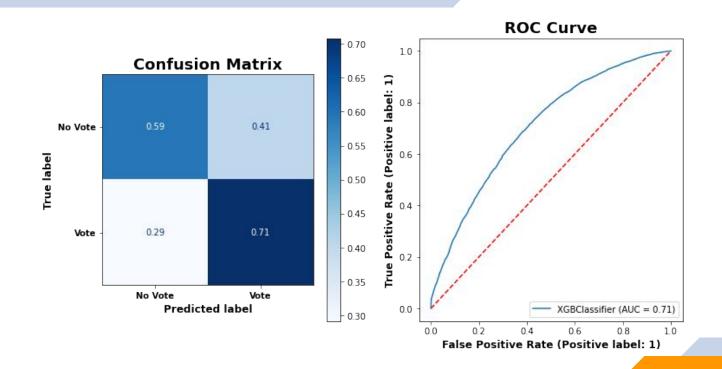
Appendix II - Best 2020 Model



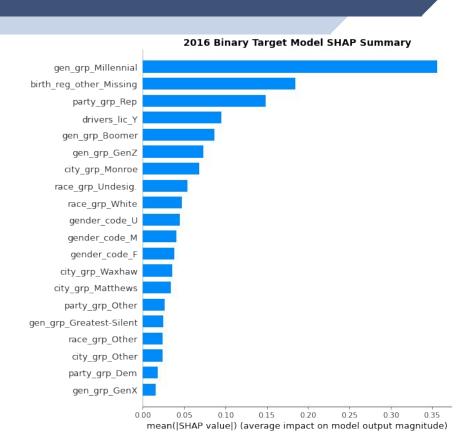
Appendix III - Best 2020 Model



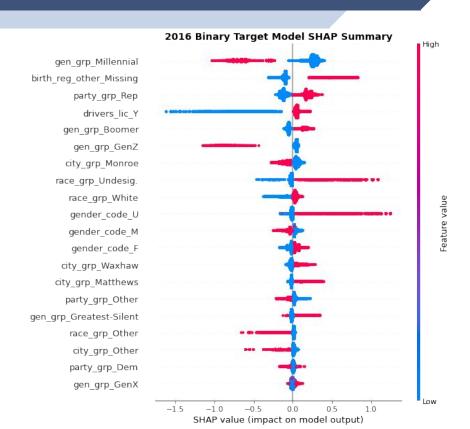
Appendix IV - Best 2016 Model: 69% Accuracy



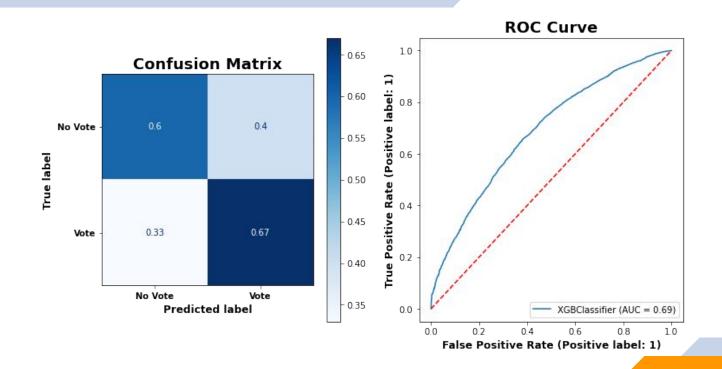
Appendix V - Best 2016 Model



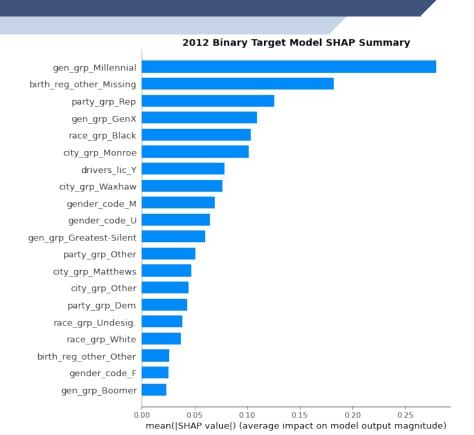
Appendix VI - Best 2016 Model



Appendix VII - Best 2012 Model: 66% Accuracy



Appendix VIII - Best 2012 Model



Appendix IX - Best 2012 Model

