Strengthening Partnerships Between Durham Schools and Local Universities
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Background
We are a joint Duke/NCCU effort to support local school communities in the Durham Public School (DPS) system by analyzing and visualizing data from Durham Public Schools, as well as the city of Durham, using an asset-based approach.

Methodology
- Data Collection using data mining and web scraping
- Visualize Data through geojson files, plots, and tables
- Develop and deploy an interactive R-shiny dashboard

Future Work
- Create a base template for data dashboards to be used by community schools in different neighborhoods.
- Incorporate community-sourced changes and feedback

Dashboard

Progress
FULL SCHOOL COVERAGE
- Incorporated all schools in Durham County with a physical footprint

TRIPLED DATASET
- Information on over 17 geospatial variables
- Graduation Rate, Wi-Fi Access, and Funding per student.
- Some community statistics: Median Home Sale Price, Diversity percentage breakdown etc.

OVERHAULED AP COURSES/SPORTS
- Adding the remaining high schools to the list
- Restructured the sports section: men's and women's sports on Varsity, JV, and Club levels were integrated.

IMPROVED ACCESSIBILITY
- Added full Spanish translations to all parts of the dashboard for better accessibility
- New tab with feedback form, enabling both current and future Data+ teams to address user needs effectively

CONNECTOR ROLES
- New Page that helps DPS communities facilitate connections between Duke and NCCU faculty-led programs
- The page categorizes initiatives around three pillars: teaching and learning; research; and service

Check It Out
Dashboard
Durham University-Assisted Community Schools Research Collective
Durham Public School Foundation

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