Data Illuminators: Scalable Data Analysis for Nighttime Crosswalk Lighting

Problem: 76% of pedestrian fatalities occur at night. Nighttime crashes at rural and urban intersections can be **reduced** by 33-38% with well-designed lighting. However, there is no scalable way to identify which crosswalk intersections are in need of redesign.

Solution: Use existing geospatial (GIS) data to create an interactive map that classifies contrast and brightness at each crosswalk.

Ideal Crosswalk

A well lit crosswalk will have high brightness and the pedestrian will be in positive contrast.



Team





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Spatial Datasets









