WEB-ASSISTED OBJECT DETECTION FOR OUTDOOR SCENES

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THE ISSUE

- Object detection is a large part of Computer Vision
- Lots of false positives
OUR SOLUTION

• Given a query image (with GPS location)
• Narrow down list of possible objects (list of 13 objects such as fire hydrants, lamp posts, and bus stops)
• Database of objects with locations
• Add weight to detections based on how likely it is the image contains that object
• Localize by city
PROGRESS

- Found city with most GIS (Geographic Information System) data relevant to our list of objects
- Tweaked Pedro’s object detection code
- Going to make object detection models for four objects (fire hydrants, lamp posts, bus stops, and traffic signals)
- Going to fuse GIS data with object detection