Abstract

Anyone who has ever been in an unfamiliar city knows the feeling of apprehension that comes with navigating on foot from point to point. You want to walk to your destination efficiently, but are also mindful of the desire to stay safe. Without the embedded knowledge of being a local, you don’t know which streets to avoid, particularly in the evenings.

For certain populations such as women, this problem feels particularly acute.

The main approach of this project is to build up safer enviorment for the people traveling to various places as well as for the local natives

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Existing solutions do little to address this major issue:

* Conventional navigation apps like Google Maps don’t factor in pedestrian safety in their routing algorithms, often leading you through poorly lit alleyways to save on travel time
* Searching online on forums like Reddit is both time-consuming and confusing, as you can get conflicting information, and don’t have a great way to integrate that into your navigation plans
* Using online crime heat maps doesn’t give sufficient granularity - these tools often mark off entire neighborhoods, which isn’t useful.