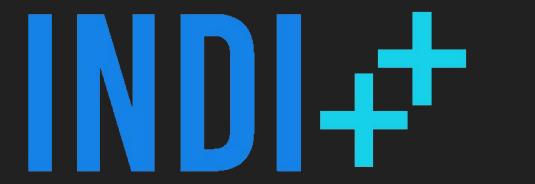
Applying machine learning to extend independence and give loved ones increased piece of mind.



25-50%

"By the age of 85 years and older, between 25 and 50 percent of people display symptoms of dementia…"

Our Project

- 1) Collect GPS data from a users phone
- Send that up to a server
- Using machine learning, form a baseline of the individuals habits and routines.
- 4) Detect anomalies and respond. First by asking the user if they need assistance, then by messaging a loved one to inform them of the users location and situation.

How far did we get?

- Using python, wrote a script to generate simulated GPS data to train our model on.
- 2) Began work on training a model also coded in python.
- 3) Wrote a simple app for an iPhone using Swift that provided GPS data
- 4) Setup a simple server with PHP and a SQL database that can receive and store the GPS data from the phone.
- 5) Using Twilio, we were able to code a simple version of a text alert.

How far might we go?

We believe that we were able to make sufficient progress during this hackathon to see that this project meets two important criteria:

- 1) It is something that is achievable.
- 2) It is something that could really help people.

We will look into pursuing this application when we return to the University of Delaware. We believe that it has great potential to help a lot of people for little to no cost to them. Meanwhile, there exists a potential for a product like this aimed at workers in assisted living communities. An application like this that could be tied into a dashboard and give insights on all of the residence may help give greater care.