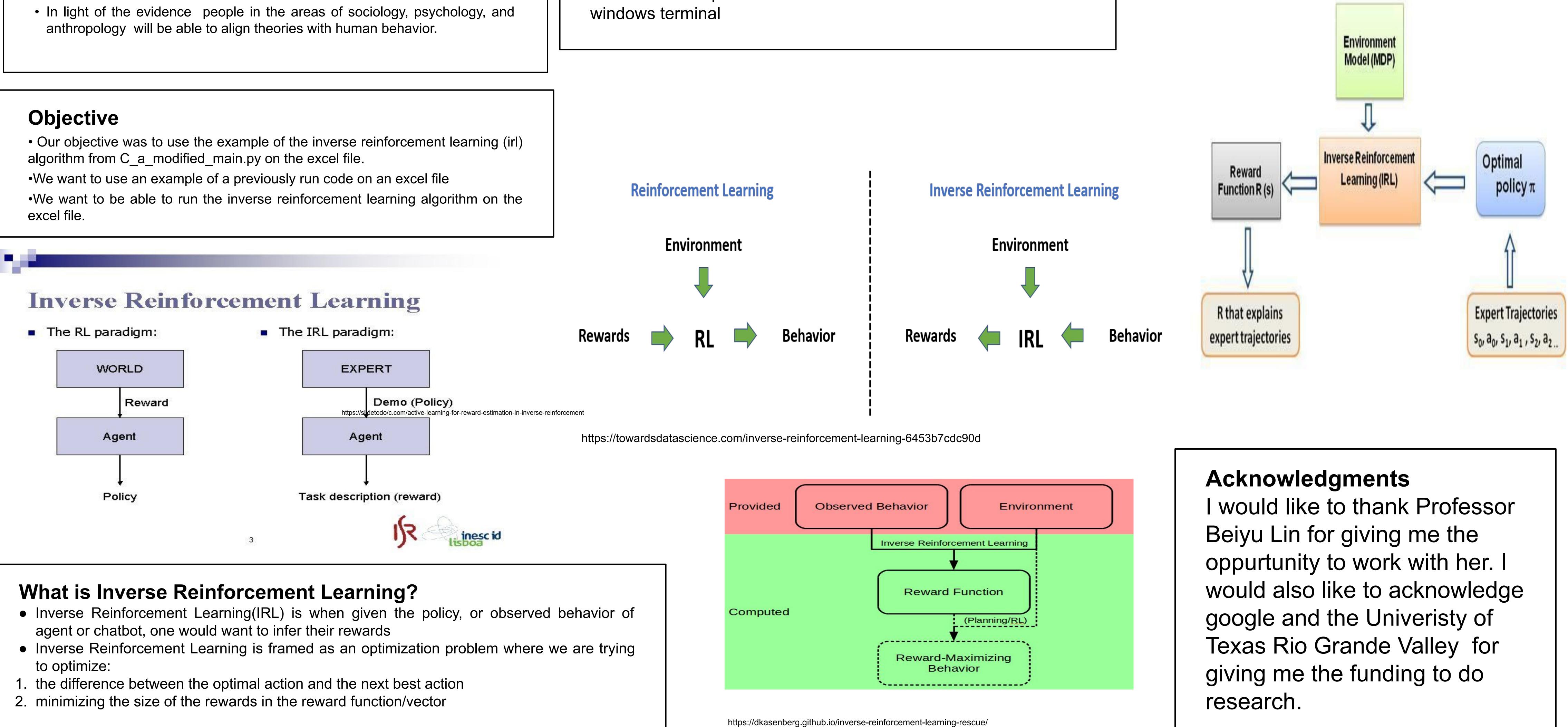
Inverse Reinforcement Learning (IRL) on Mouse Movement Data Sankalp Chauhan (Sonny), Beiyu Lin Computer Science Department, The University of Texas Rio Grande Valley, Edinburg, Texas, 78539

Motivation:

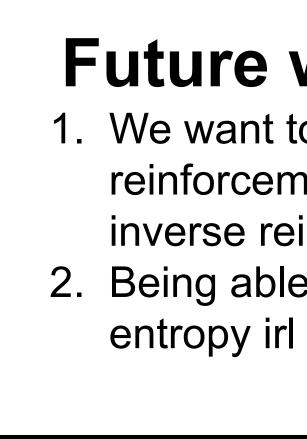
- Our goal was to run an inverse reinforcement learning (IRL) algorithm on mouse movement data to predict people's behaviors
- Be able to design webpages with their own personalized content
- Another aspect was to investigate how behavior is different in the general population than in different subpopulations
- It can be contended how characteristics such as age, health condition, and education have on daily routines.
- The results of the experimentation will help to automate diagnoses and predict behavioral features of individuals within a group



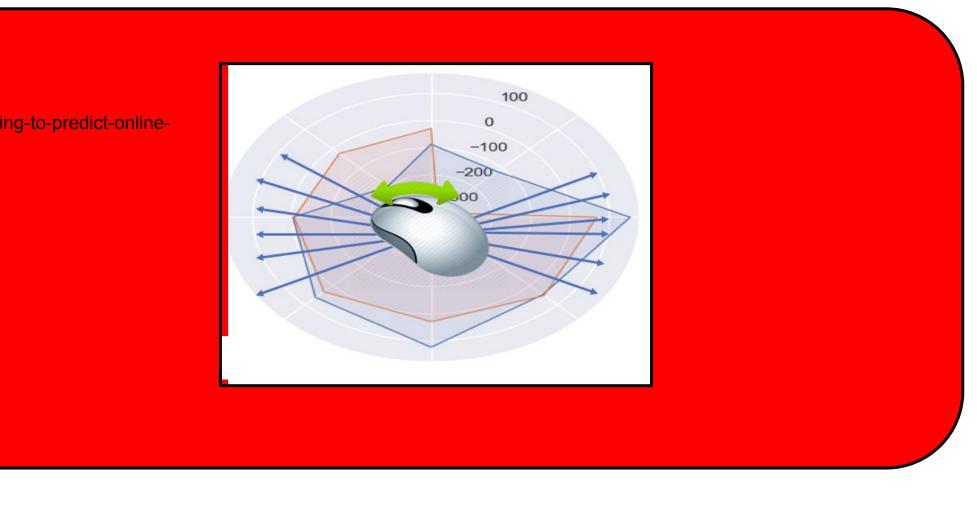
Dataset implement the algorithm

• Primary data: Excel file with several columns that contains the x and y coordinates of the trajectories we need as well as several other important features present.

Secondary Data: C_a_modified_main.py an example of an Inverse Reinforcement Learning (IRL) algorithm that was run on hh109 dataset. We then were able to run an C a modified main.py on the windows terminal. Also there was readme file present that showed how to read the file on a



searchgate.net/figure/Inverse-Reinforcement-learning-Cornell-University-2011 fig3 316786383



Future work

. We want to be able to extend the inverse reinforcement learning framework to deep inverse reinforcement learning Being able to utilize deep learning in relative