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CPSC 322

Assignment 0

1. Amazon Go is an intelligent store that allows customers to skip checkout lines by doing auto-checkout with the help of computer vision, sensor fusion and deep learning. With the help of cameras, sensors and software the store is able to recognize what the customer is taking with him, what he is checking out and what he is leaving. With this knowledge the store charges directly to your account what you took from the store as soon as you leave without the need of a person to interact with the customer.

2. Every customer must register their entry via phone. Environment has cameras and sensors. Goal is to track what everyone is grabbing from the shelfs and when they leave the store charge them with the correct amount of money.

The actions that the system must do in order to meet the goal are:

1. Identify the user.
2. Recognize the products taken or placed from a shelve.
3. Identify which user grab or leave the product.
4. Identify when the user leaves the store and generate a receipt with the products he took

3. Amazon go claims to use computer vision and deep learning to correctly identify the users and also the products that are removed or placed from the shelves of the store. This data is mixed with RFID and other sensors data to increase the confidence of the system.

4. Because it has the capacity to retrieve and analyze data from the environment (images and sensors), and take decisions with the data acquired. Deciding what to charge to the correct user.

5. It is a fielded system, the first amazon go store opened on January of 2018 and there are now 9 stores across 3 cities of the U.S. Everyone that has an amazon account can try and use the store.

6. Amazon claims that their just walk out technology works so well that when it makes an error and omits a charge, the customer can keep the item without paying for it. That's what happened to a CNBC reporter when she accidentally "stole" a yogurth when shopping at the store..

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