



Nedap @ UTwente | Project Description

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1. Nedap Retail

Nedap Retail is the global leader in RFID-based retail solutions for loss prevention and inventory management. Our cloud-based RFID solutions enable our customers to always have the right amount of products available both online and in the store, while at the same time minimizing the loss from theft, returns or inefficient replenishment

2. Loss Prevention in the cloud

We see that loss prevention managers do not have the insights they require to make well-founded decisions, based on data. Instead, they now need to rely on their gut-feeling, making it more difficult to get support for loss prevention activities within their organizations and track the effect of their applied strategies.

We envision a world in which actionable insights are at the center of loss prevention. This will empower loss prevention managers to make better, decisions and optimize their strategies. Ultimately, loss prevention managers will be able to effectively combat all types of losses.

Therefore it is our mission to make it simple for retailers to identify, quantify and ultimately prevent losses, from source to consumer. No loss should go unnoticed.

3. The Challenge

Shoplifting is one of the most occurring forms of fraud. The largest and most successful retailers in the world work with our security gates to combat this, generating a lot of valuable RFID data.

It is our goal to enrich the data generated by our security gates and create a platform that will make the users happier and more successful in their professional lives.

The following sets of data are available:

- **RFID alarms.** Detections generated by our systems, containing article-level information. Each RFID alarm contains a unique article-id.
- **Article data.** A dataset that can be used to match the article-id with article properties, such as name, category and price.

By combining this data, we aim to identify:

- **Hot items.** The items and/or categories that are most sensitive for theft.
- **Hot locations.** The stores that are more sensitive for theft.
- **Hot hours.** The hours and/or days that are most sensitive for theft.

We have identified two type of users that will be using this data for different purposes:

- **Loss Prevention Manager.** The LP Manager's main goal is to identify patterns, and create high-level loss prevention strategies. The LP Manager is usually working from headquarter.
- **Store Manager.** The Store Manager is responsible for a store. Insights have to be actionable and easy to interpret.



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