



# **Team 12 - Hydrolink Iri Kumi #5 Artificial Intelligence**

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## Progress so far:

### Old Idea

Smart cups for bars/clubs that can detect if the drink was tampered with and measure the amount of alcohol one has drunk.

**PIVOT!**



### New Idea

Universal smart lids for water bottles (YETI, Stanley, Hydro Flask, cycling water bottles...) that can monitor water intake as well as purify and clean the water via UVC light technology.



# Integrating AI

We can integrate AI in our solution in different ways:

1. Recommender System
2. Projections
3. Interactivity through LLMs



# AI: Recommender System

1. Use machine learning to analyze user data like age, weight, activity level, and climate to recommend personalized daily water intake goals.
2. The app could learn from the user's drinking habits and adjust recommendations accordingly.



## AI: Projections

If the user has wearable devices that track physiological metrics (like heart rate, sweat levels, or temperature), we can use ML to analyze this data to estimate fluid loss and update and notify hydration needs in real time.



## AI: LLMs

Incorporate chatbots using LLMs prompted on custom knowledge bases that can interact with users, providing them with hydration tips, answering questions about hydration, and offering daily facts.



# Is it Worth it?

1. Recommender System: Worth it, would improve features and user experience.
2. Projections: Can be worth it. Not an essential feature.
3. LLMs: Can be worth it. Would not necessarily improve features, but will definitely improve user experience.