

# Botify

WowDAO AI Hackathon, Synthetic Data Applications Track –

**Synthetic data generation that gives smaller companies a chance to provide quality search recommendations.**

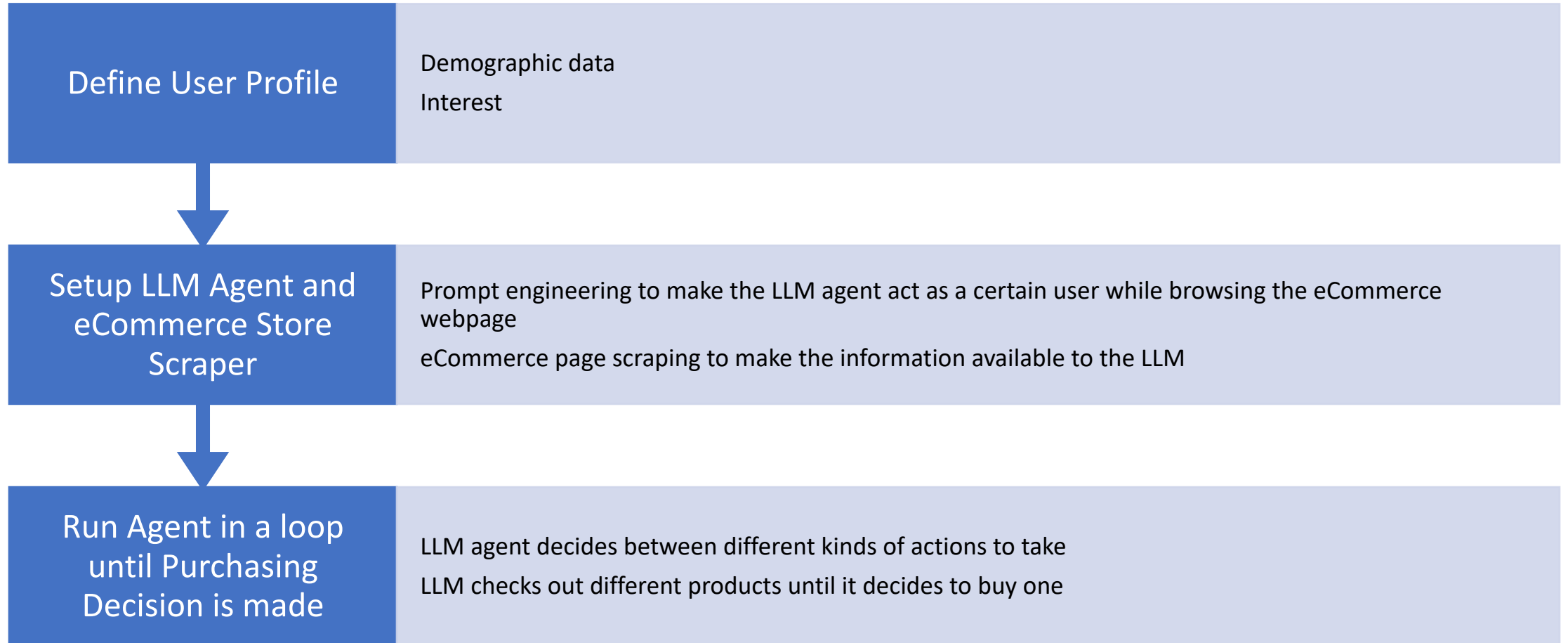
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# Problem



Small companies don't have access to the same, large datasets that larger companies do, which inhibits them from providing quality recommendations.

# Solution: Synthetic Data



# Outcome

- The LLM acts as a person with the specified user profile browsing the eCommerce page
- A dataset of actions on the eCommerce page that the LLM took is generated:
  - Searching
  - Clicking on search results
  - Clicking on recommended items
  - Going back to the search results
  - Buying the item
- This dataset can be used for search & recommendation optimisation

# Code

- Demo code available on GitHub:  
<https://github.com/drcdev-gh/wowdao-synthdata>
- TechStack
  - Backend: Python, BeautifulSoup, FastAPI, Langchain, OpenAI
  - Frontend: Javascript, Svelte
- Futher Development
  - Document requirements for eCommerce store browser/scrapper, so that eCommerce store providers can use it on their own store
  - Allowing the LLM to do more different action types
  - Improving API

# Demo

**See linked demo video in submission!**