



Phi Distributed Recommendations

Ean Hatfield, Jinho Nam

Targeting Ecommerce companies for better value
recommendation





Key Winnings

- Minimalistic oriented design
- Cutting-edge large language models
- Collect vast data from different Phi-stores
- Scalable by design





Capabilities

Our recommendation system can deal with:

- Checking the invalid or irrelevant input.
- Customized orders based on the user's preference and the big data.
- Accept input based on natural voice commands
- Scales to as many stores as desired



Justification

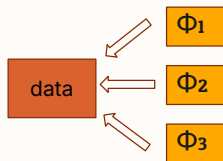
- Invalid or irrelevant input.
 - Better serve end-users privacy
 - Review their order in speech before confirming the order.
- Control for User's Preference
 - Their orders will be added to a large dataset to provide a customized recommendation.
- Process Natural Voice Commands
 - Accessible interface for users with unique needs
- Infinite Horizontal Scaling
 - The large dataset can be scaled as the number of Phi stores increases.
 - Better serve users geographically





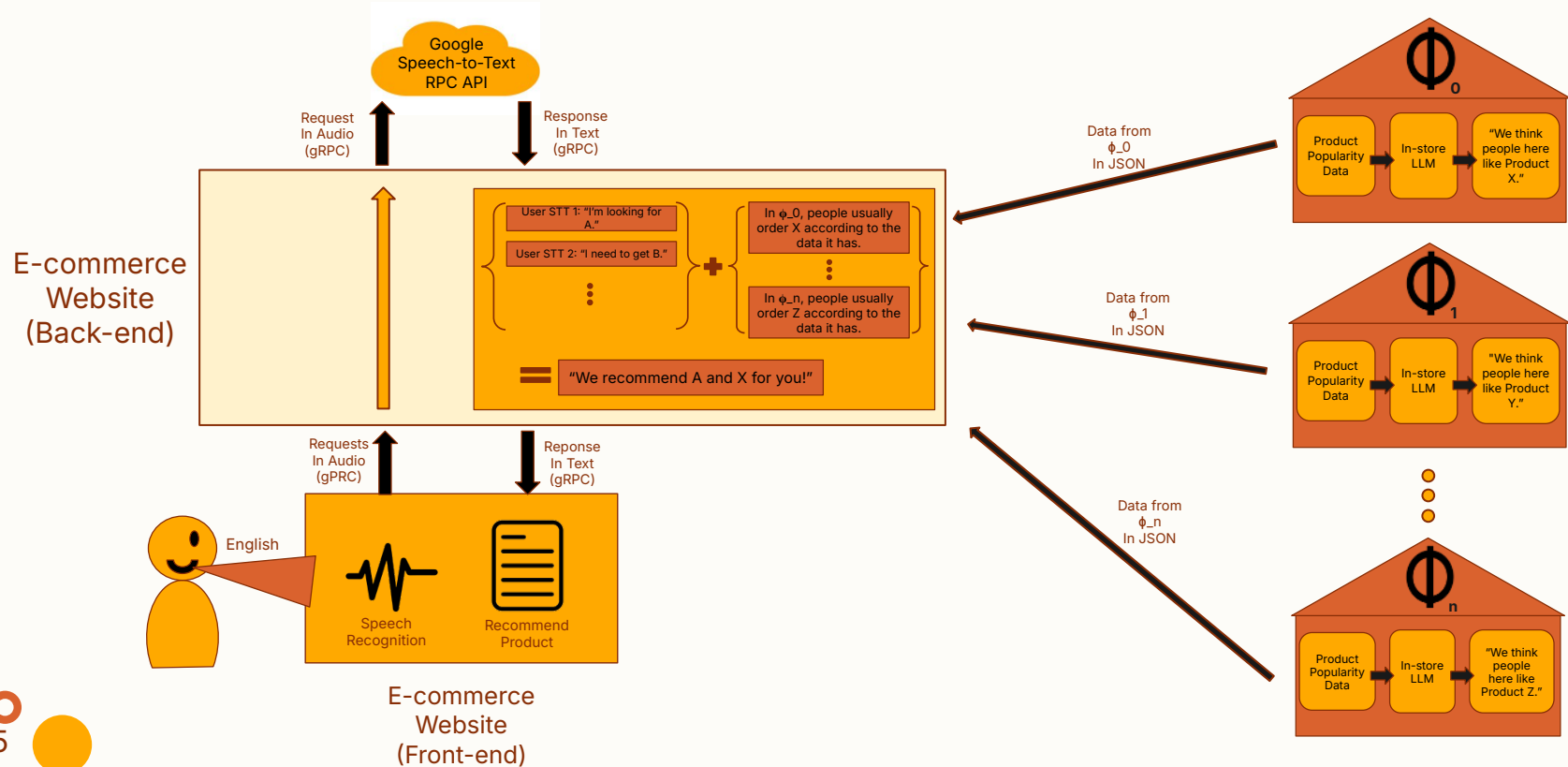
Conclusion + Implementation

- Invalid or irrelevant input.
 - User's order will be an audio file and they will have a chance to listen to what is recorded.
- Control for User's Preference
 - The recommendation system will be based on not only the user's order, but also from the large dataset of the distributed Phi stores.
- Process Natural Voice Commands
 - Google STT will convert the audio file into texts.
- Infinite Horizontal Scaling
 - Treat each Phi store as an object to scale the dataset.





Architecture + Protocols





Libraries/Tech Stack

- Frontend
 - Typescript
 - React + Vanilla CSS
- Backend
 - Typescript
 - Node + ExpressJS + gRPC
- Phi-Store
 - Java + Bash
 - Native HTTP Libraries





Phi Store Φ

Thank you !

