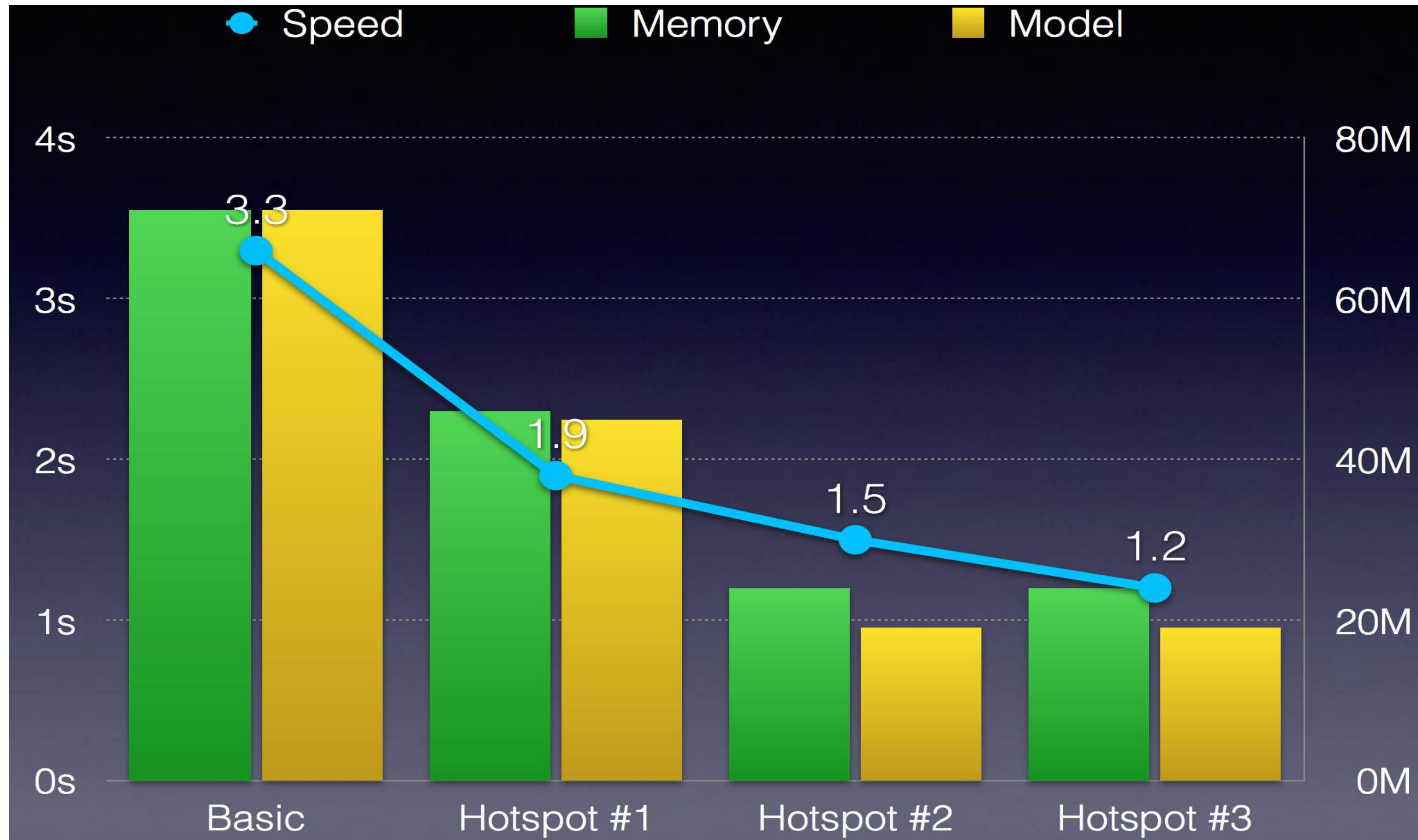




Client - 个性化强化学习

- 关键问题
 - 高效增量计算
 - 个性词频
 - 个性词表

Client - 强化学习模型基本结构

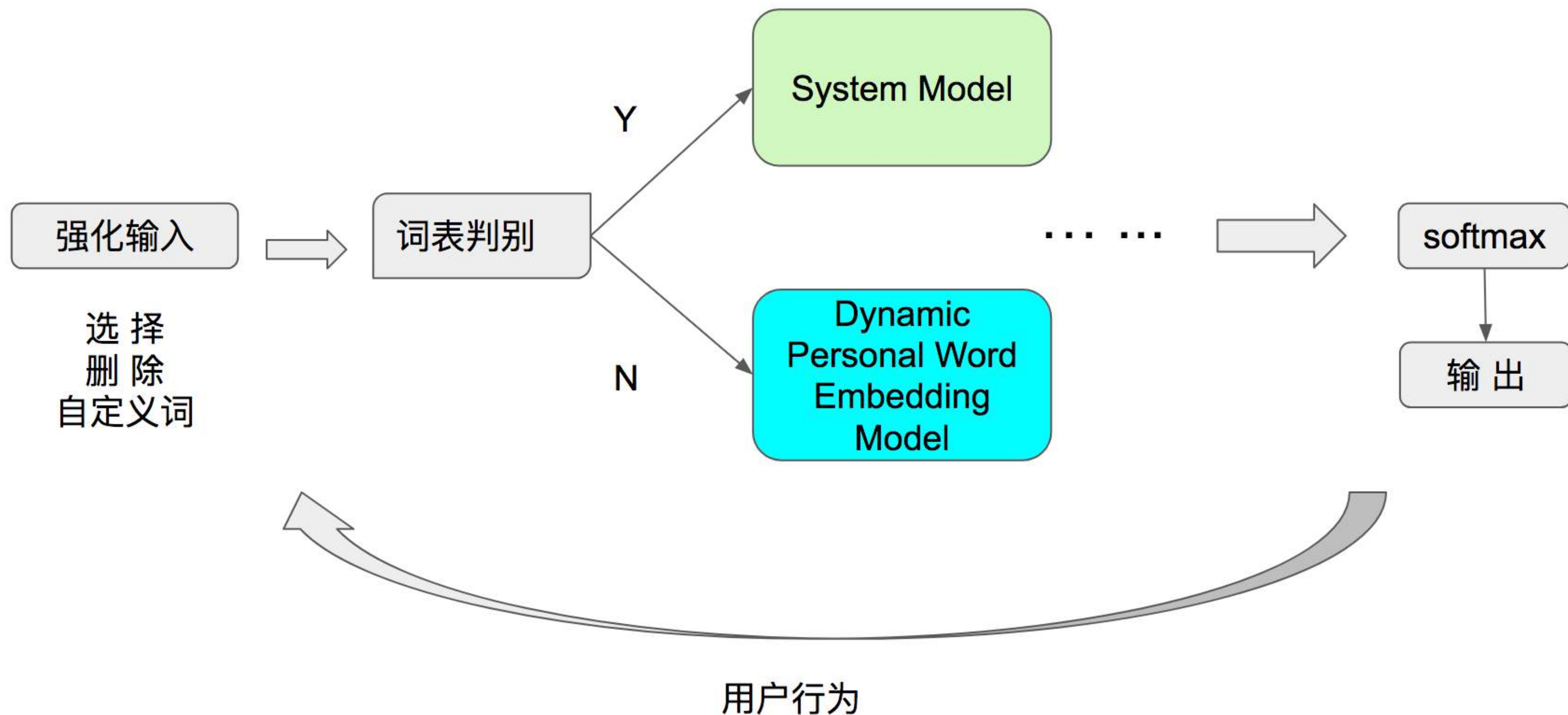


TABLE OF CONTENTES

Mobile Keyboard Status

Kika and AI

Engine Alps - Kika Keyboard Engine

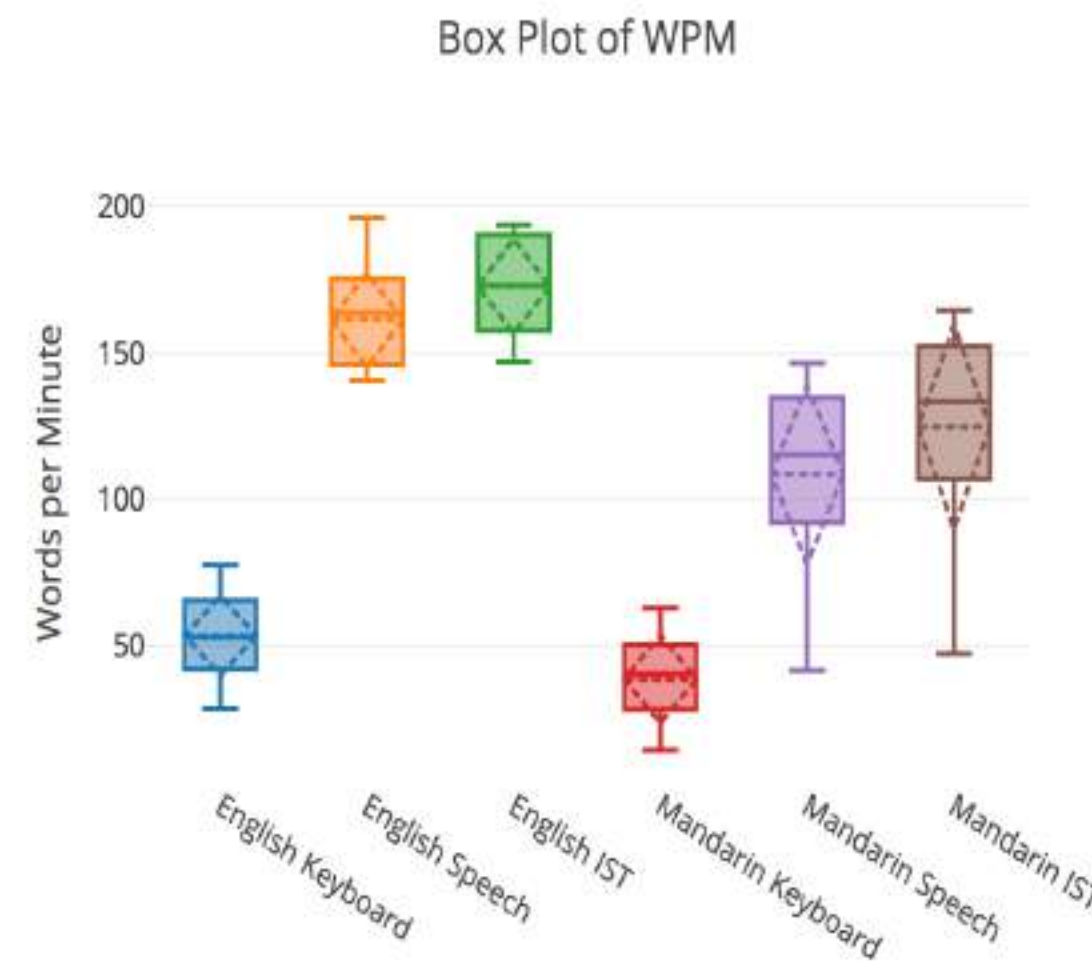
Engine Appalachian - Kika Voice Engine

KikaGO – Kika Voice Solution

Future Work

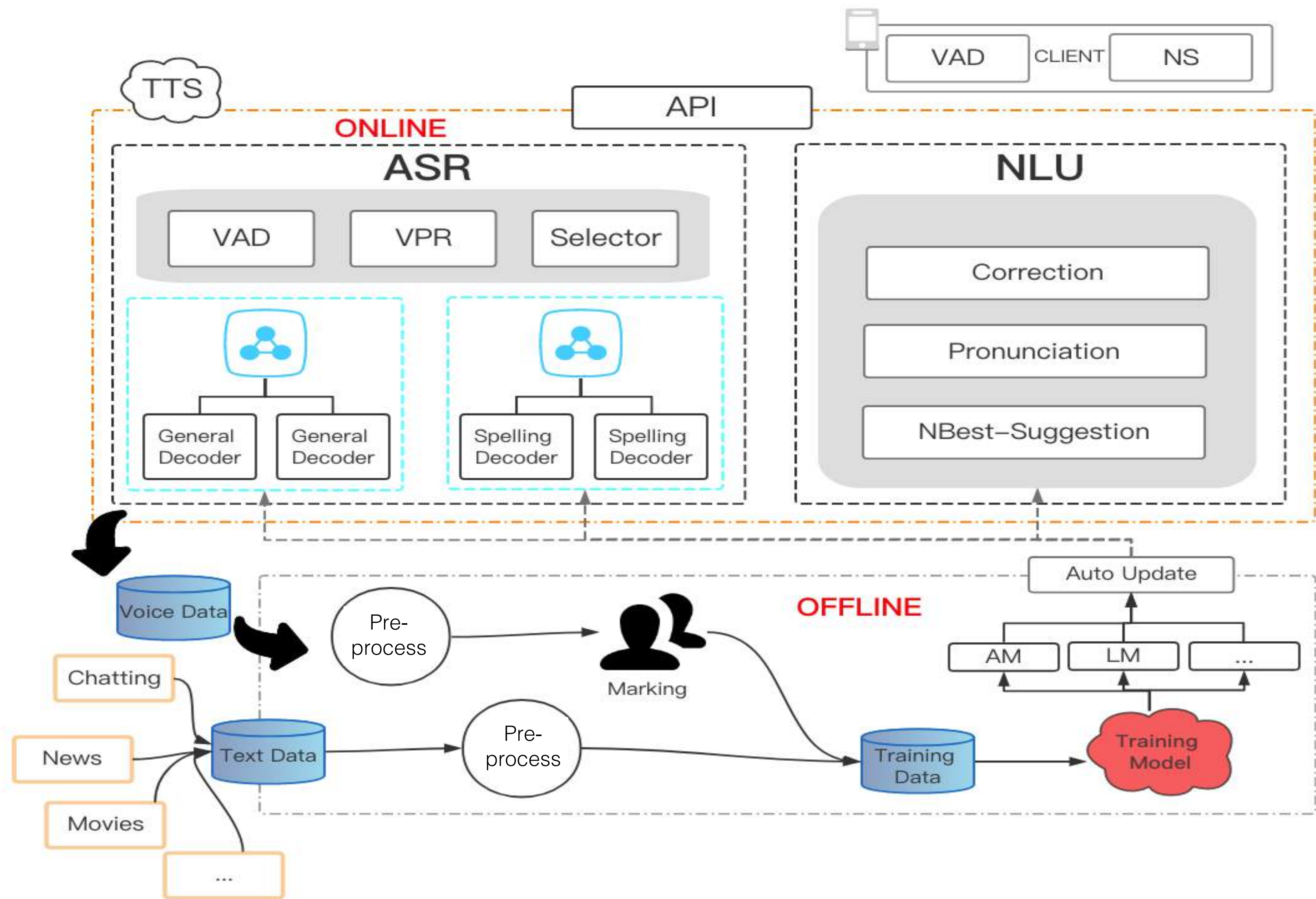
Why Voice

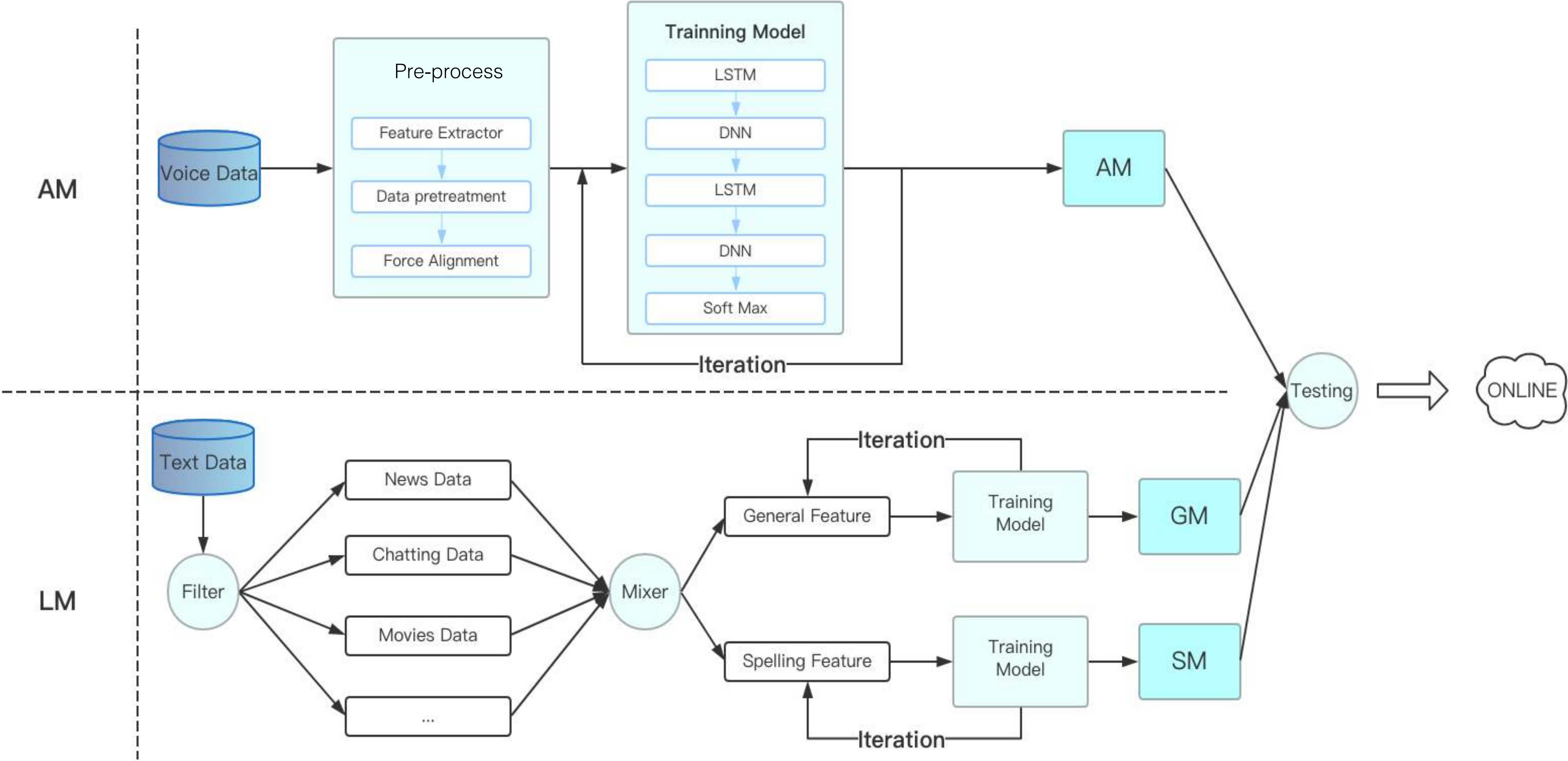
- Voice Input 10X Typing Input
- ASR Is not enough

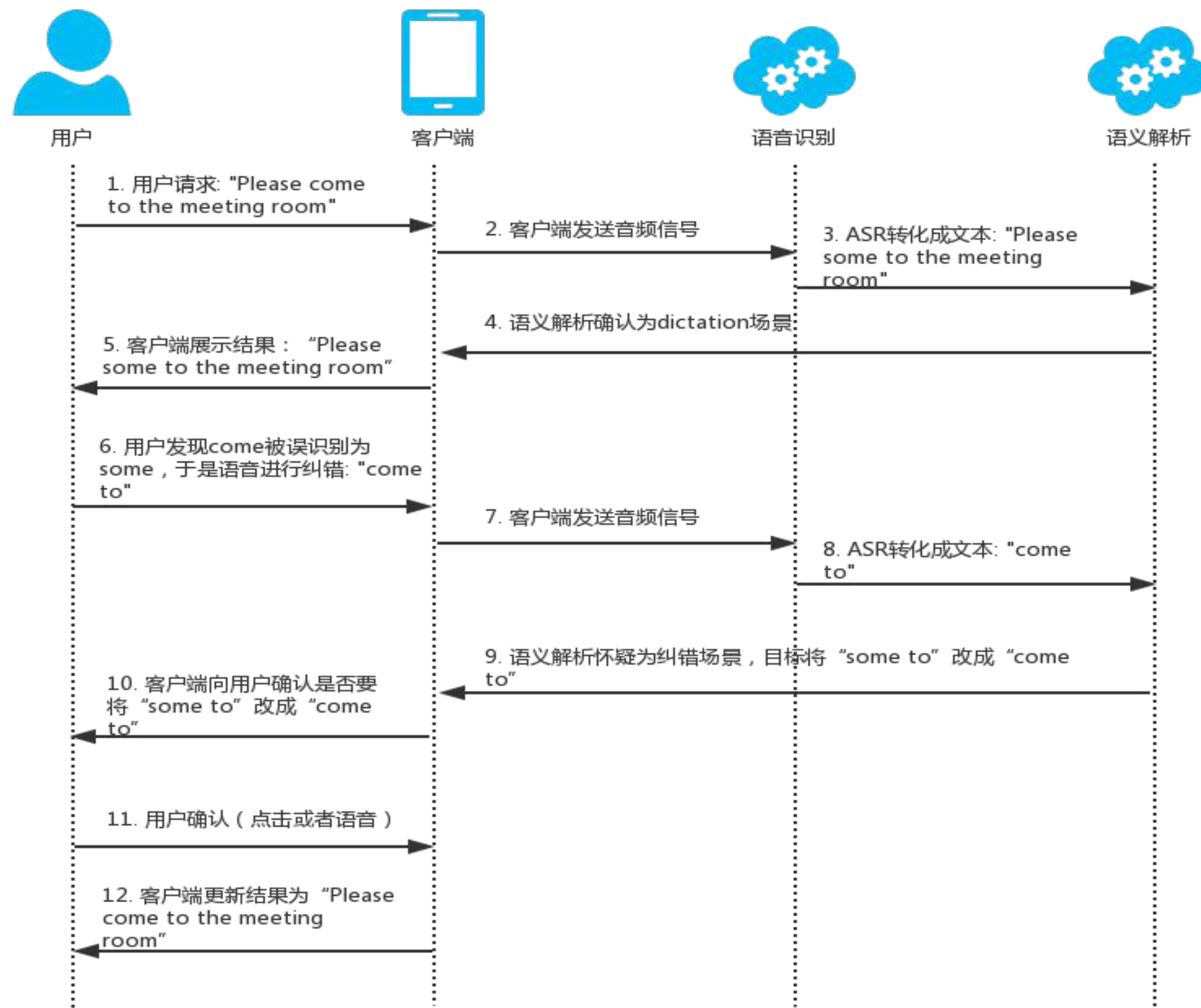


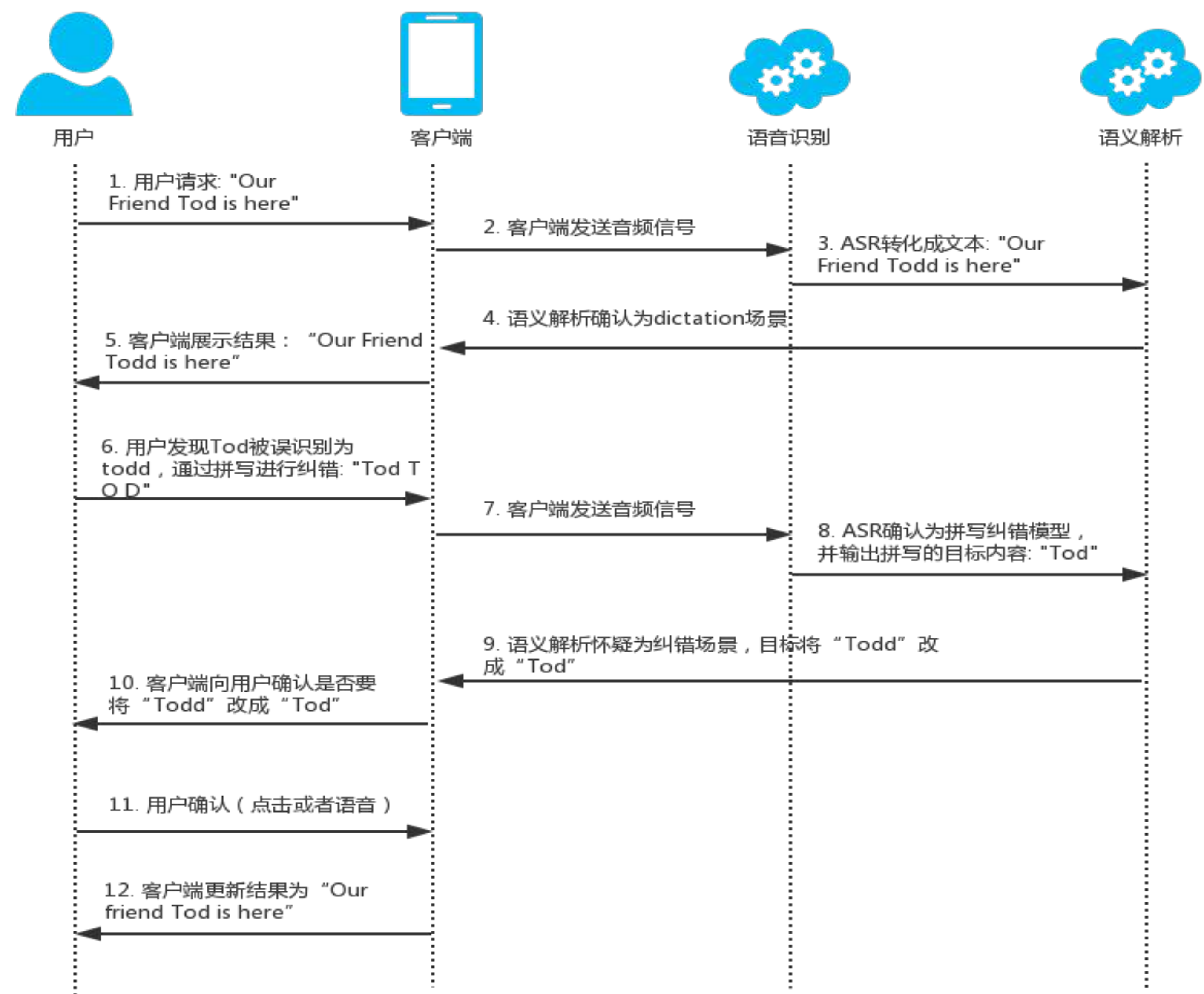
Why Voice Only

- What's Voice Only
- Key Technology
 - 语音识别
 - 语音纠错
 - 语音编辑





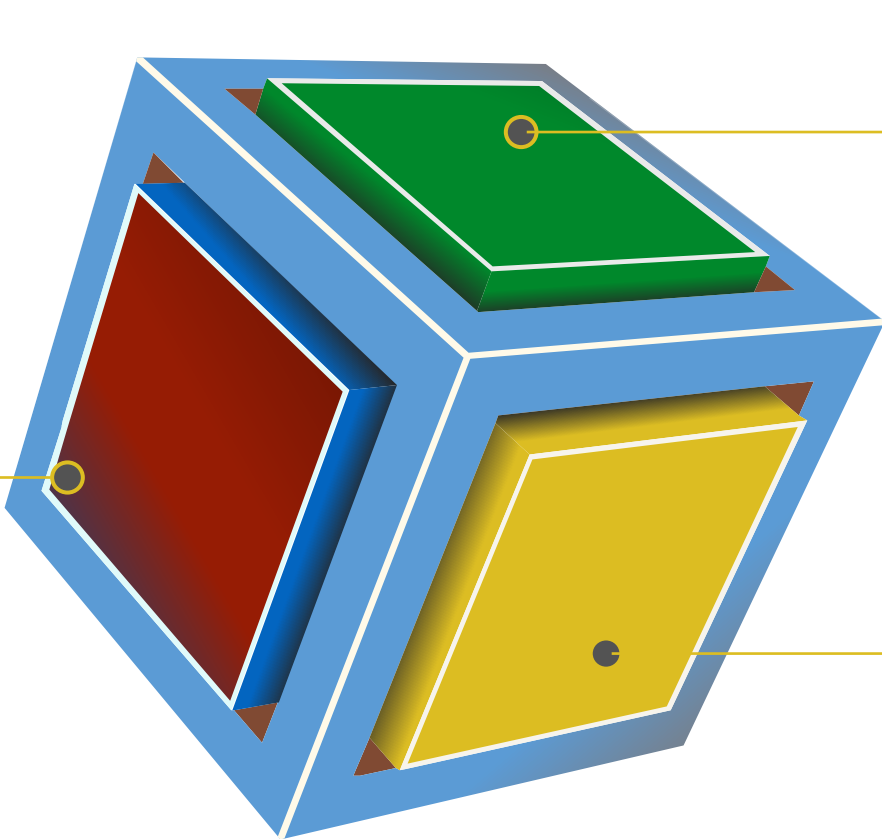






数据

4亿用户的语音和文本数据
多场景上万小时音视频数据



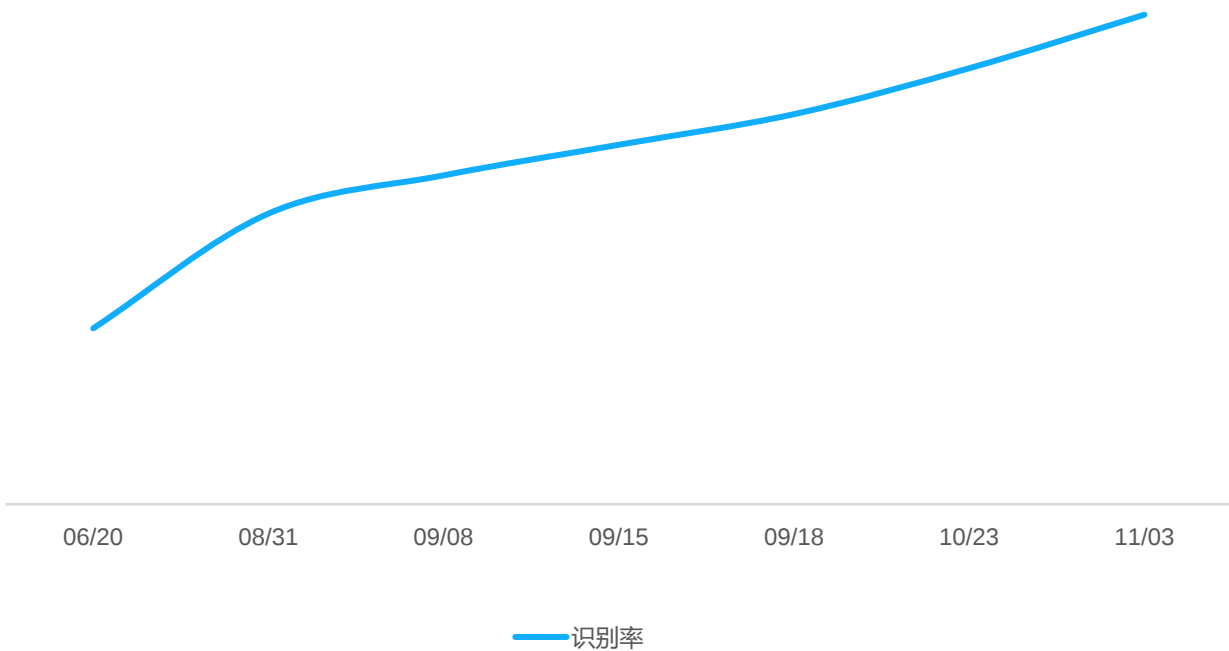
技术

深度学习引擎

场景

基于对话沟通延展开的多种场景，包括语音输入，商务会议，医生问诊，车载沟通

语音识别准确率提升



精准语义理解能力

在语义模糊时，根据上下文正确理解用户意图

- Dictation Intent
- Correction Intent
- Spelling Intent
- ...

表达增强

基于精确的语义理解，智能增强用户表达

用户：do you want to have dinner at 8:00?

AI 识别：do you want go at 8:00? 🍲

TABLE OF CONTENTES

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Future Work

kikaGO



CES 2018 Innovation Award Winner

- In-Vehicle Audio/Video
- Tech for a Better World
- Software Mobile Apps
- Smart Home



AI Lab

- Language Model Adaptation
- Unsupervised Acoustic Model
- RNN Model Adaptation on Mobiles

TABLE OF CONTENTES

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Future Work

Alps

- Forward Prediction VS. Backward Correction
- Performance optimization on Android Go
- Sentence-level Paraphrasing

Appalachian

- From ASR Dictation to Application Adaptation
- Semi-Supervised Acoustic Model training
- Oral voice to formal text transformation

Thanks!