

FALCON BARISTA

FALCON LLM HACKATHON





The Problem

Major challenge for restaurant industry

High Labor Costs

Solution

Let AI solve it







The Solution

An order taking bot with speech capabilities

FALCON BARISTA

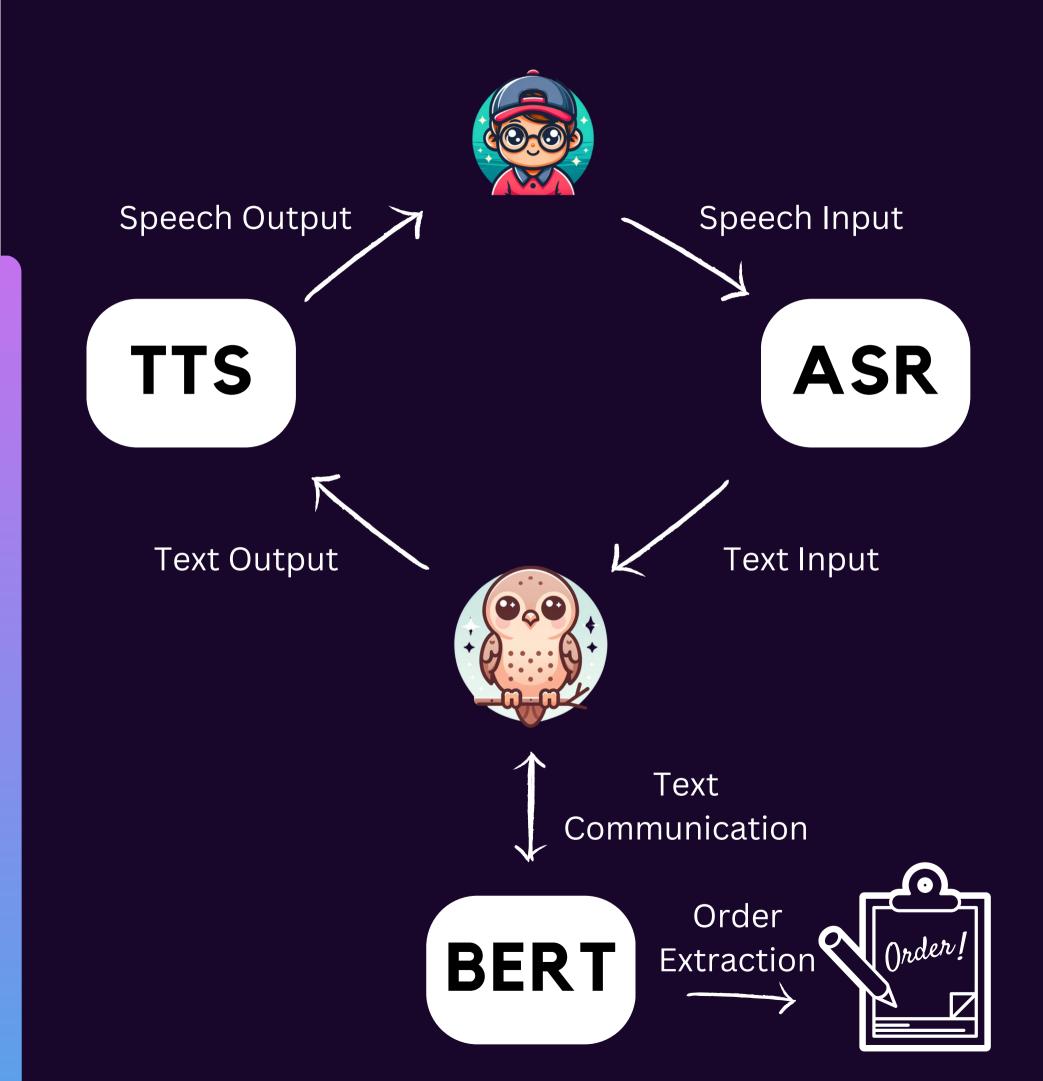
- No manpower required for order taking
- For order taking on counters, drivethroughs, and over the phone



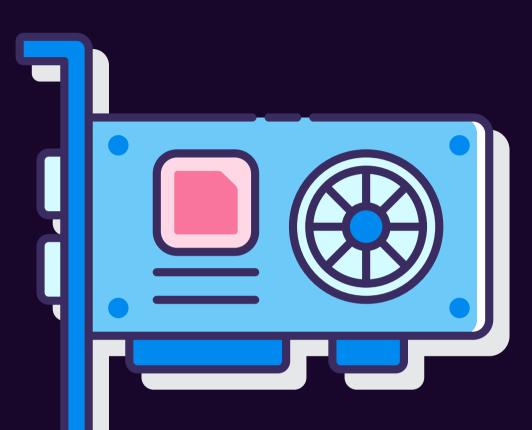


Salient Features

- Has ability to hear and speak
- Falcon-7B LLM for conversation
- Fine-tuned BERT for information extraction







Works on single 16 GB RAM GPU

Our Innovation

- Falcon Barista has minimal compute needs.
- Most chatbots use LLMs with over 100 billion parameters.
- Falcon Barista uses the fine-tuned Falcon-7B LLM with just 7 billion parameters along with smaller fine-tuned BERT models to give best performance / compute ratio



Challenges

Reduce Latency BERT
Gets
Confused

Falcon Hallucinates

Currently ~10s

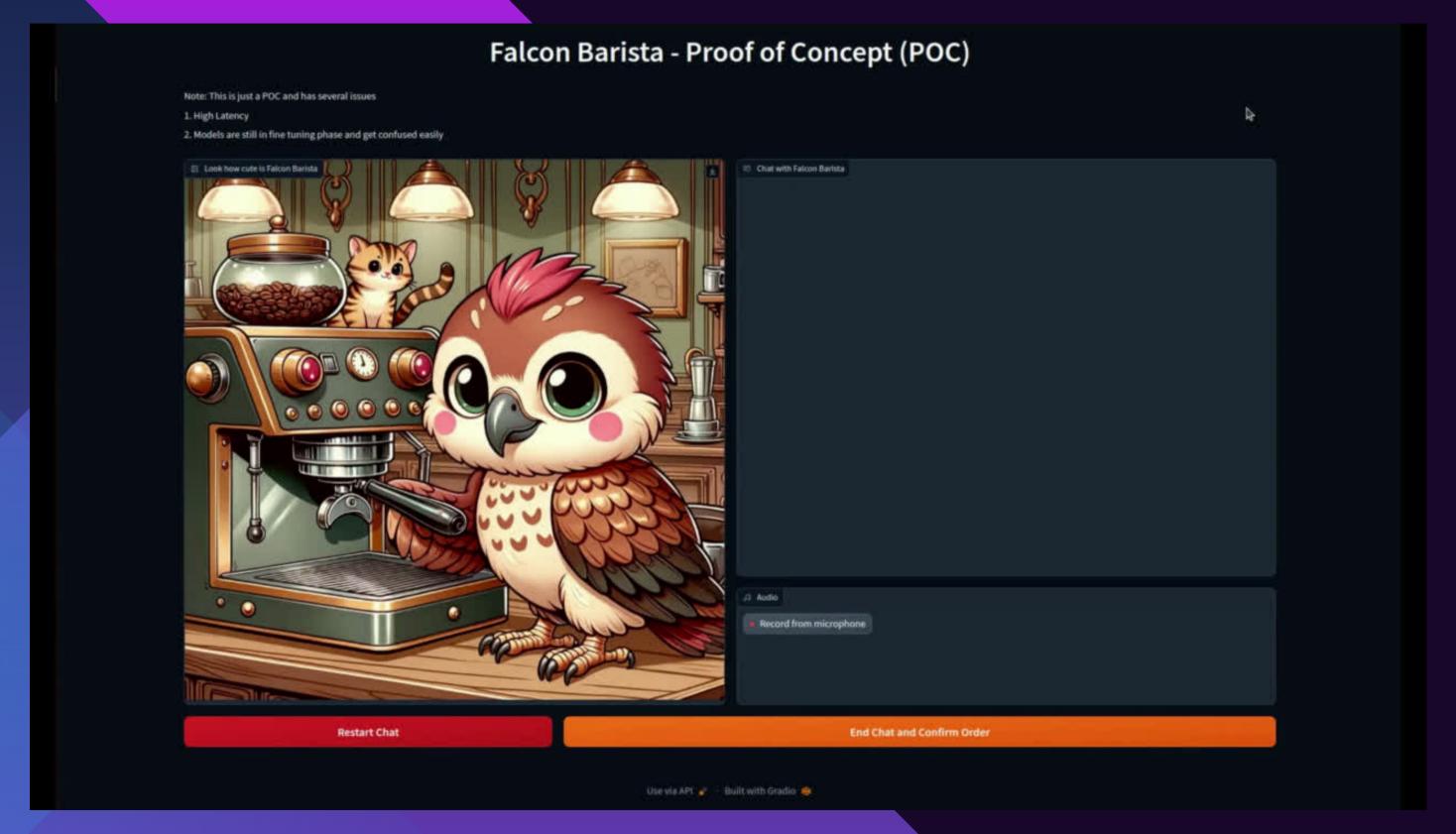
Needs further Finetuning

Needs Finetuning

Way Ahead? Need more Compute!



DEMO VIDEO



Video link

FALCON BARISTA

THANK YOU