



Challenge Task

Amy Gdala

Dsy FS2022

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What is Amygdala?



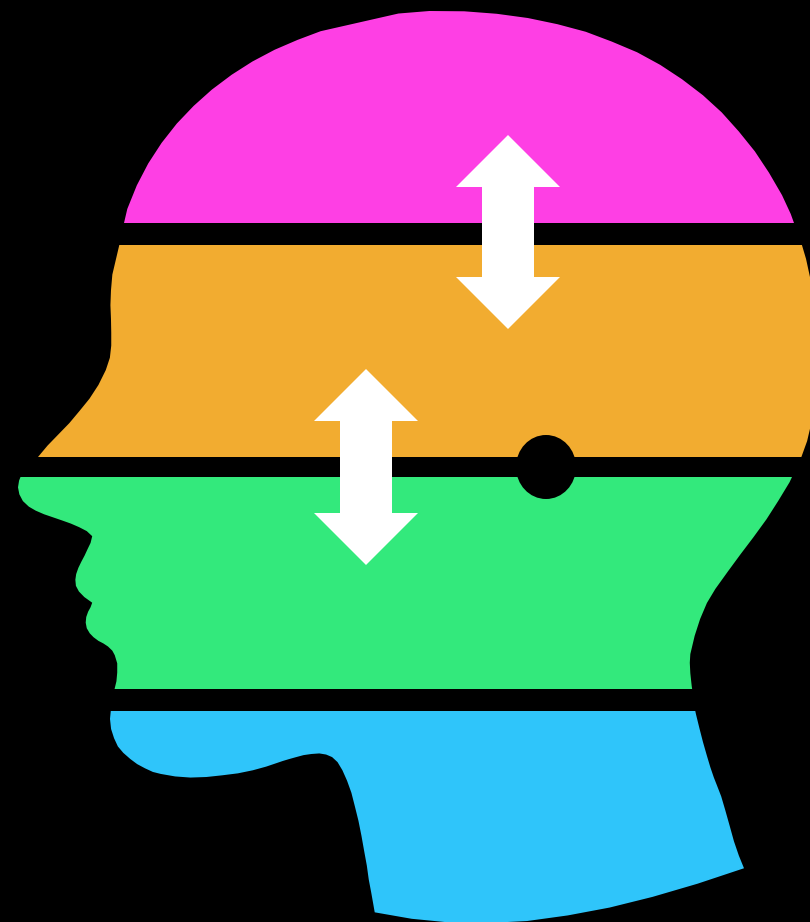
Region of the brain that helps to encode memory and regulate emotions

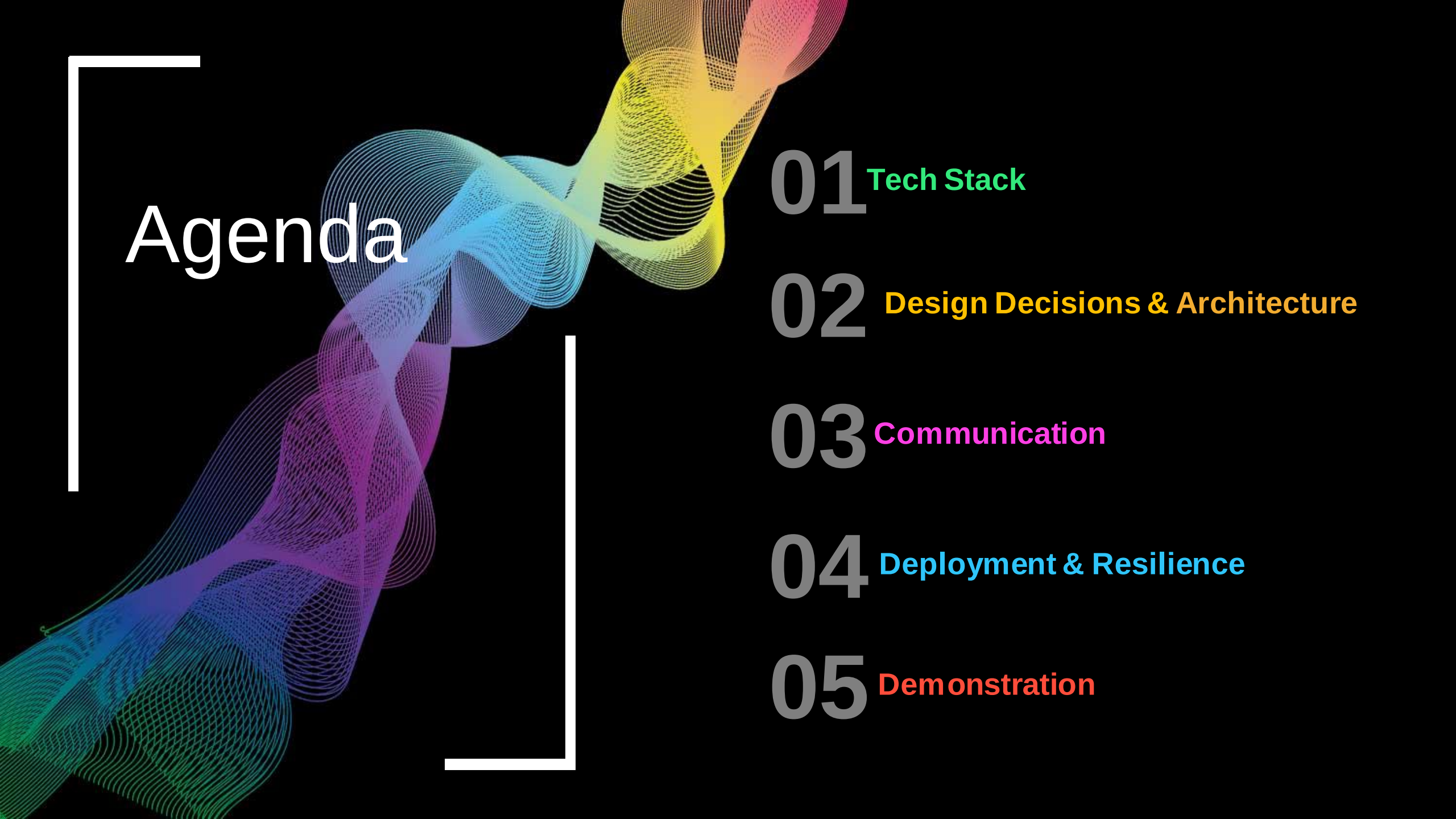


Memorize Information by talking about your day (writing a diary)



Search all your memories with natural language queries





Agenda

01 Tech Stack

02 Design Decisions & Architecture

03 Communication

04 Deployment & Resilience

05 Demonstration

Tech Stack



OpenAIs GPT-3 as a "Cognition and Consciousness" which does the natural language processing



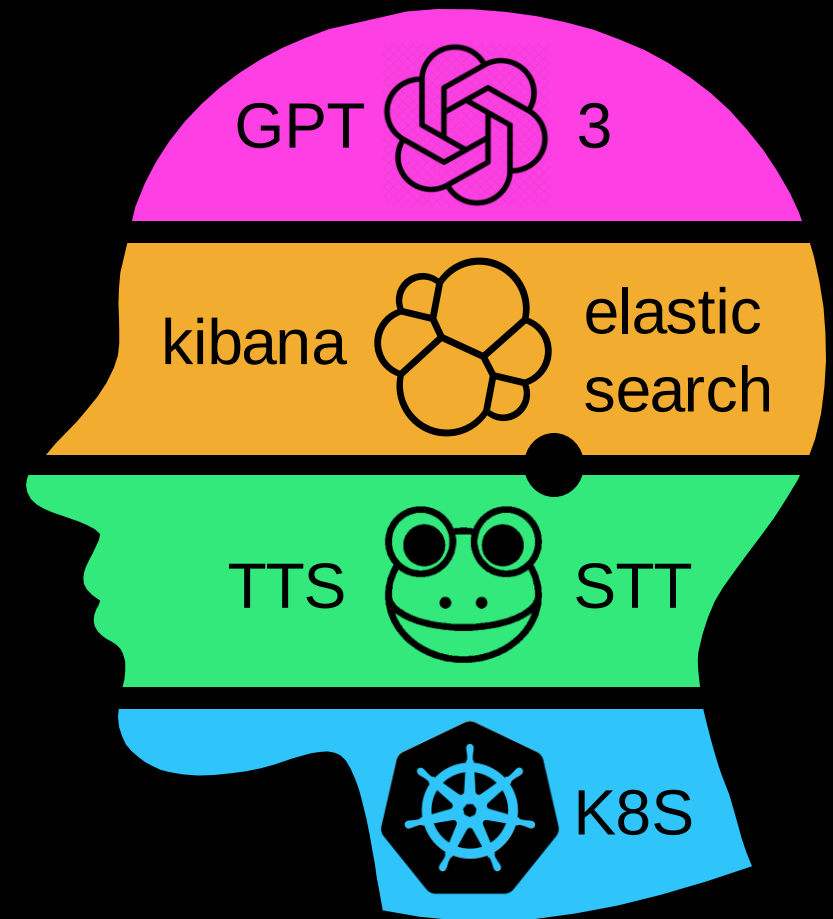
Elastic search to persist memories and make them searchable



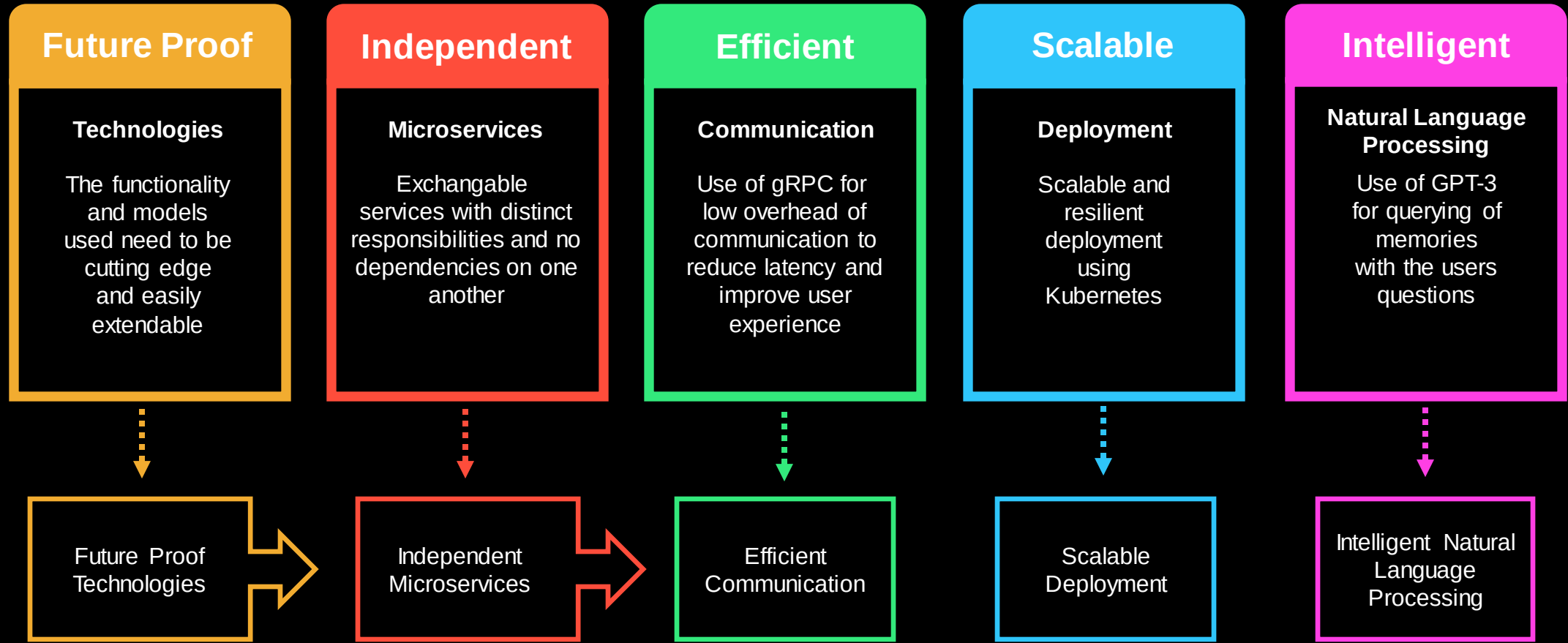
Coqui-STT and Coqui-TTS to transform speech to text and text to speech



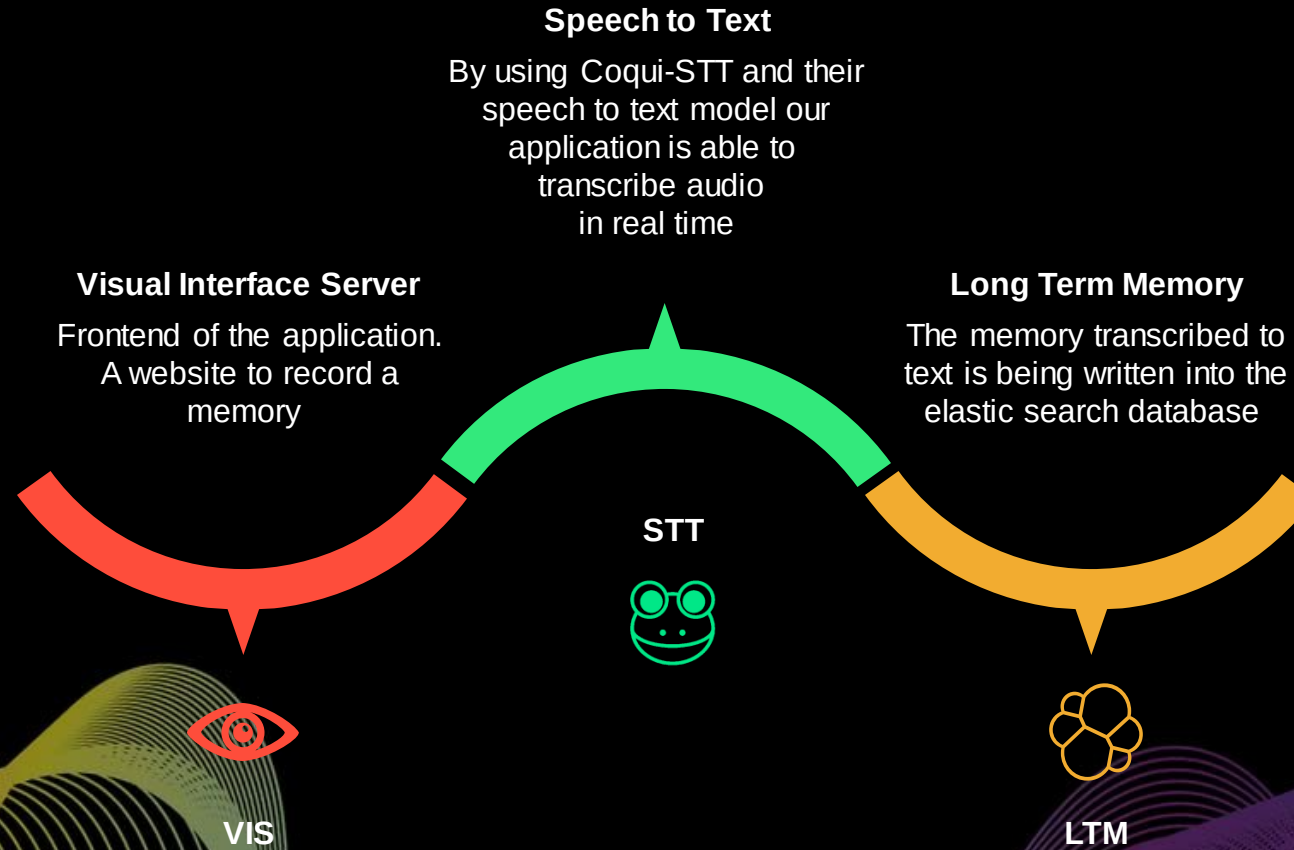
Kubernetes for deployment, scaling and management of our application



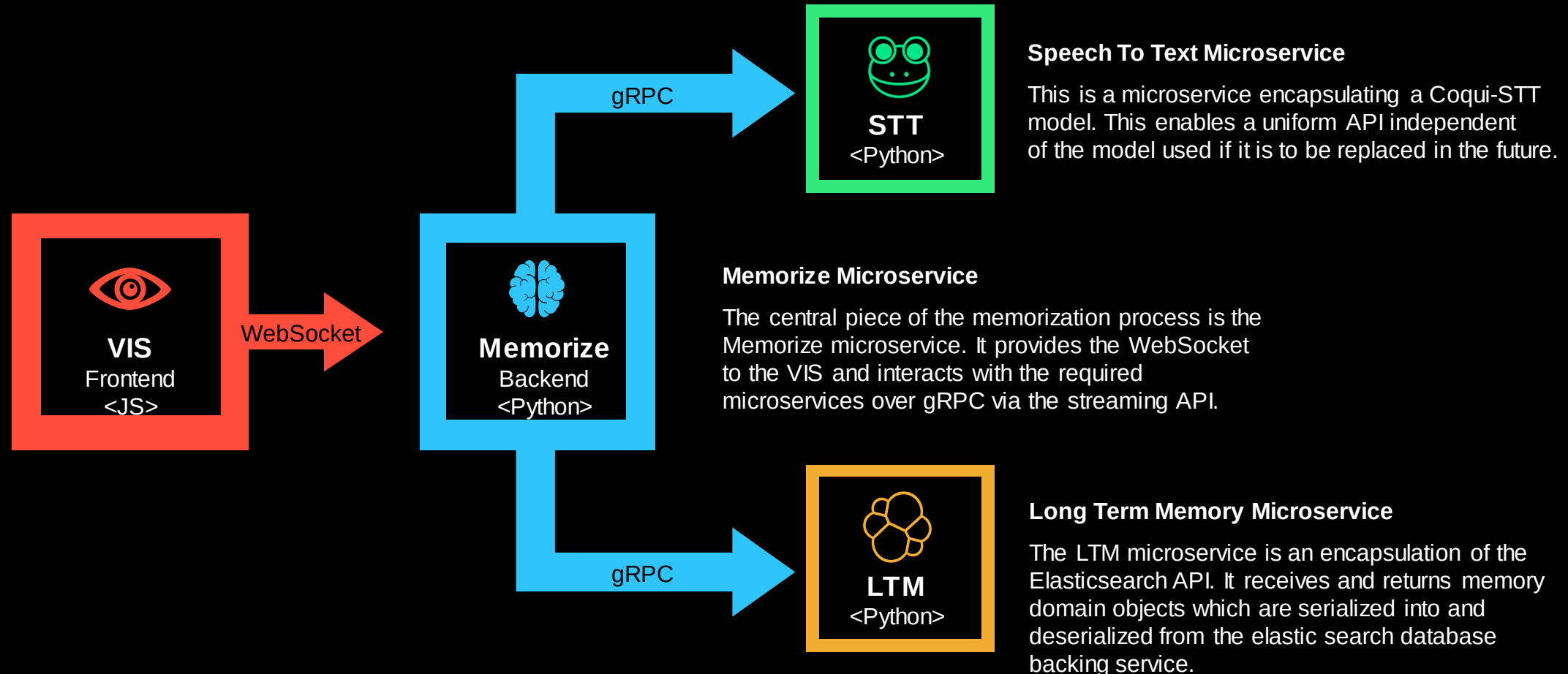
Design Decisions



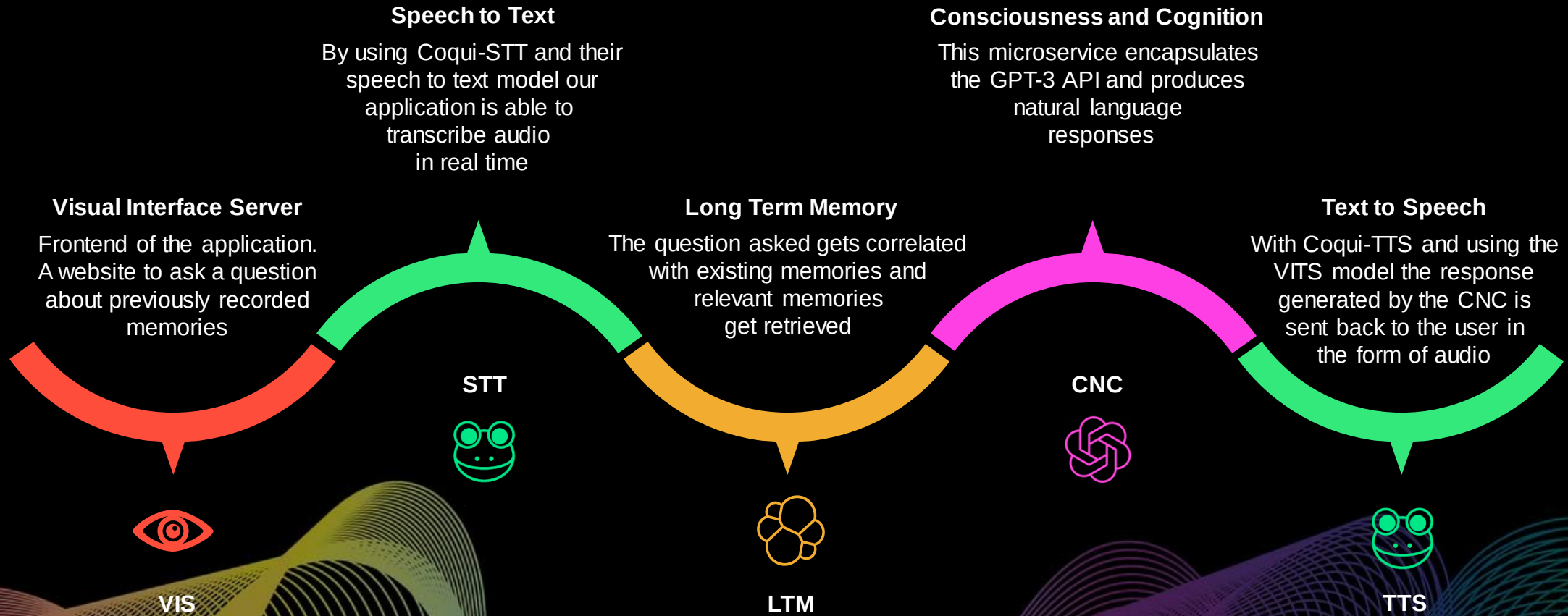
Recording a Memory



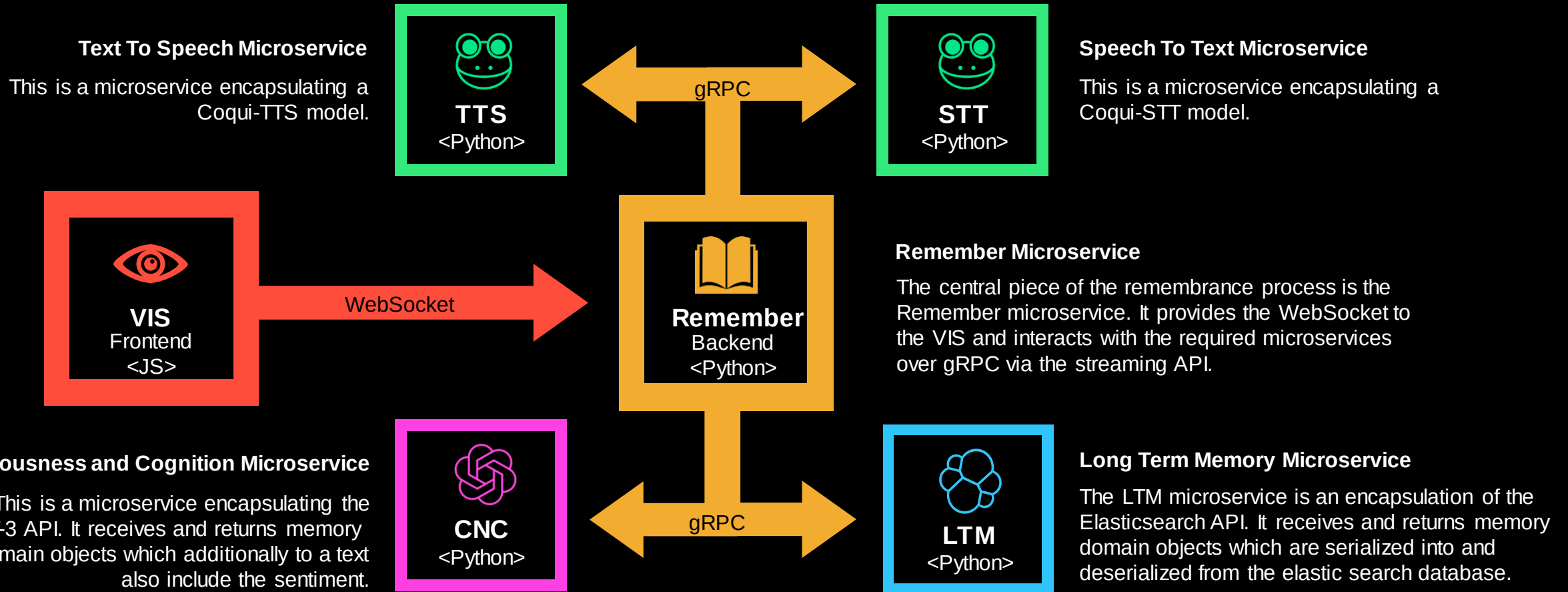
Memorization Architecture



Recalling a Memory



Remembrance Architecture



Deployment & Resilience



Kubernetes for deployment, scaling and management of our application



Istio gRPC load balancing and service mesh

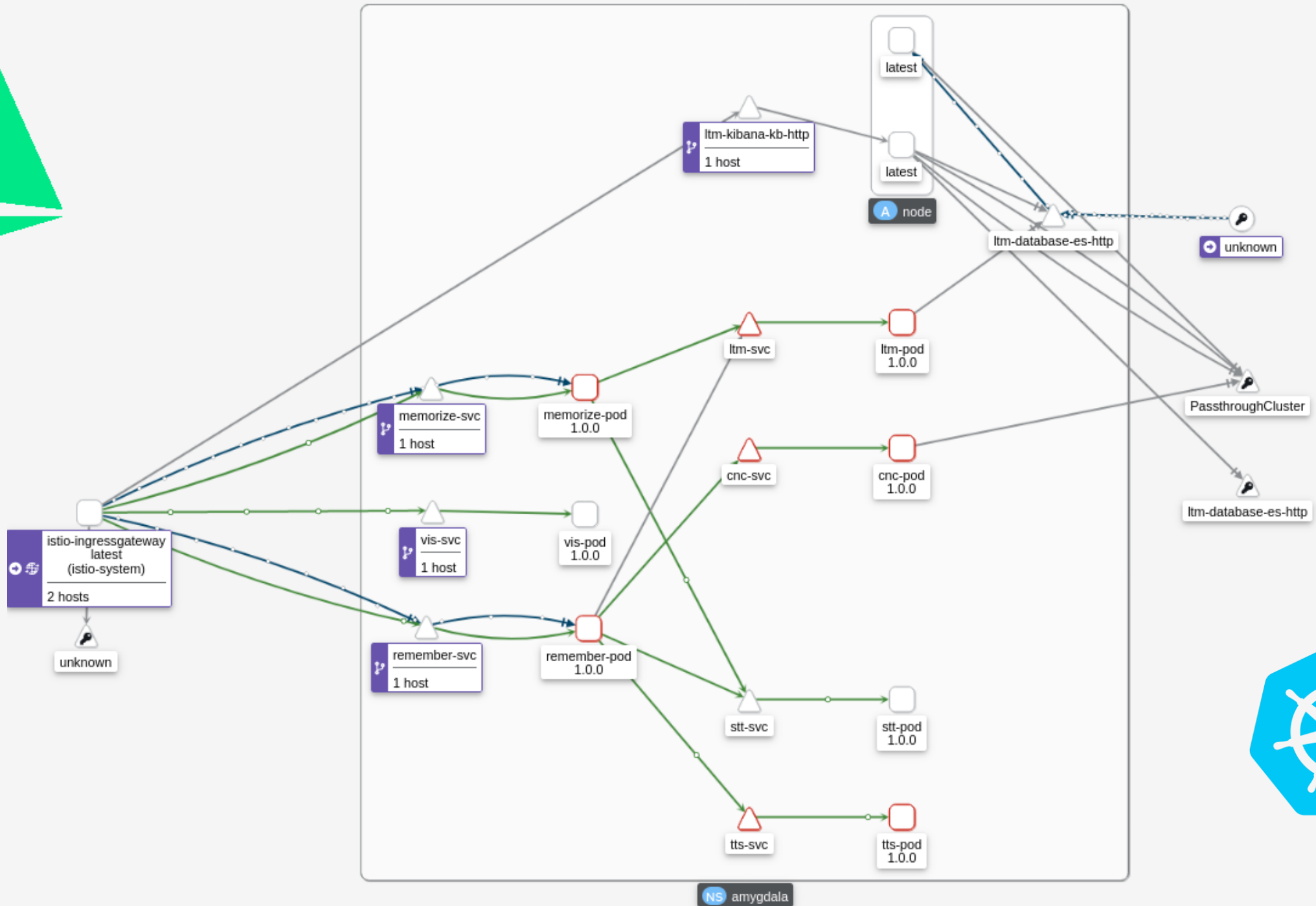


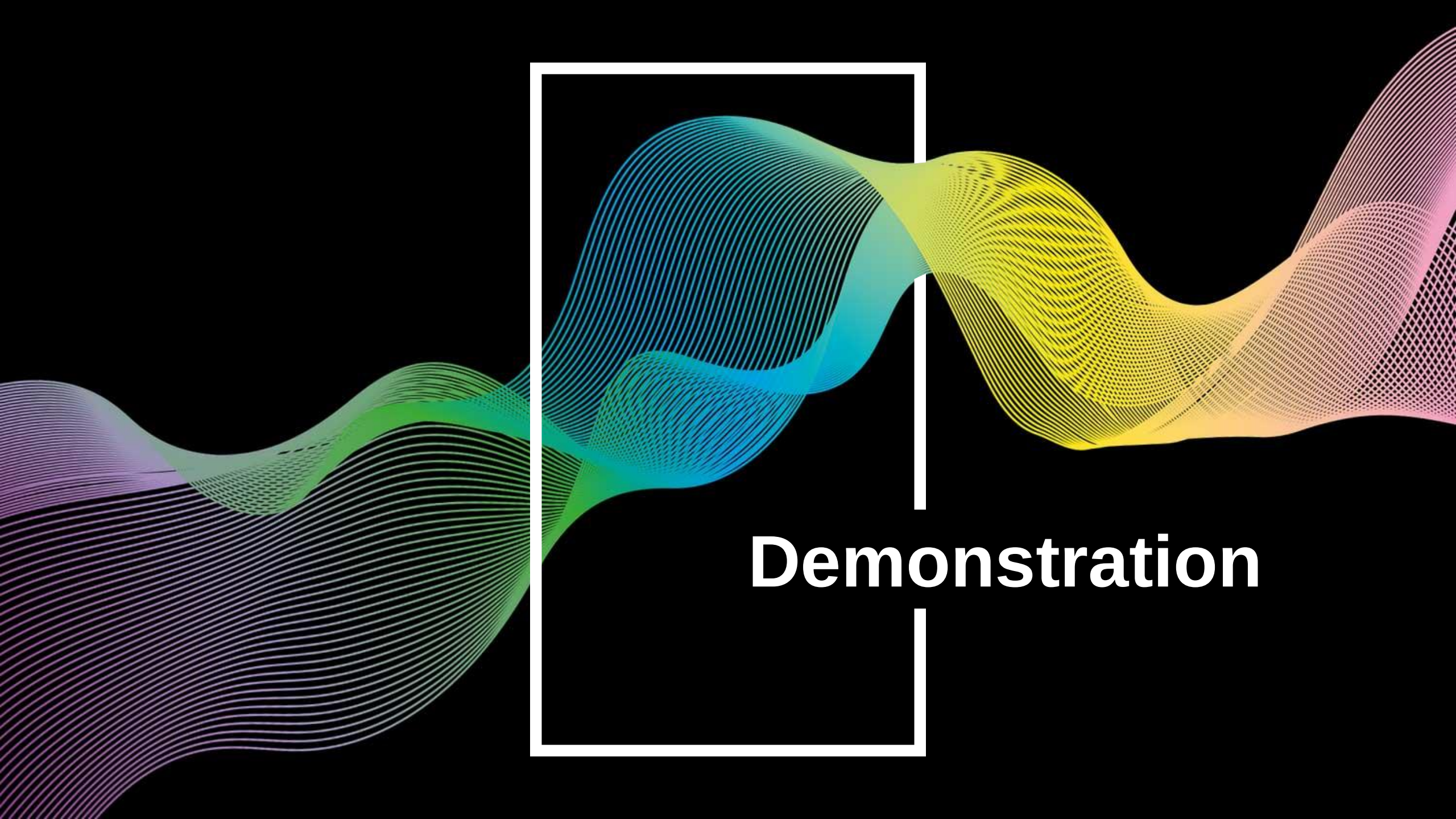
gRPC API written in protobuf
allows for easy exchange of underlying technology
for individual microservices



Shared repository for all communication deployed
via CI/CD to the Gitlab PyPI package registry.

Communication





Demonstration



Questions