Sit.
Stay.
Deploy!
02
itq
What's Next.

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AI Lead

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itq

- Founded in 2001 in NL
- European Multi-Cloud Company (8 countries)
- 230 skilled professionals
- End-to-end services and solutions
- AI-Focus since 2017
- We bring AI to your data (not the other way around)

CLOUD NATIVE COMPUTING FOUNDATION SILVER MEMBER

THE LINUX FOUNDATION

Red Hat

NVIDIA

HashiCorp

vmware by Broadcom

IBM

LOGINVSI

Microsoft

aws

Google

AIRBUS

ING

NETHERLANDS CANCER INSTITUTE ANTONI VAN LEEUWENHOEK

Gemeente Amsterdam

Rijkswaterstaat

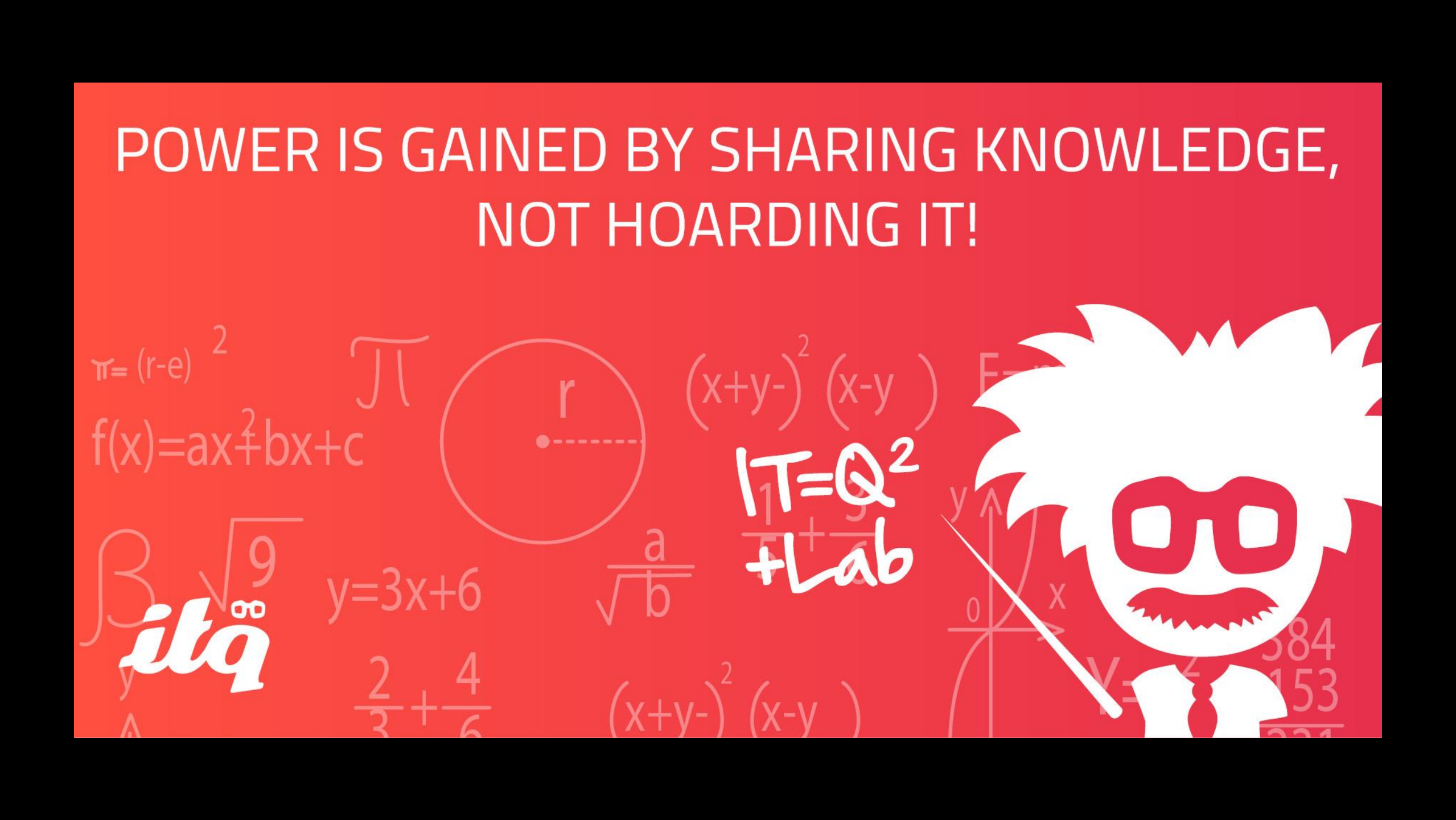
CM.com

Private Cloud for AI

Hosted Private AI

AI Appliance

POWER IS GAINED BY SHARING KNOWLEDGE, NOT HOARDING IT!



Lola

- Neighbors’ cat
- Frikkin’ huge Maincoon
- Turds >= mine
- Shits in my garden

Project Lola

RTSP feed

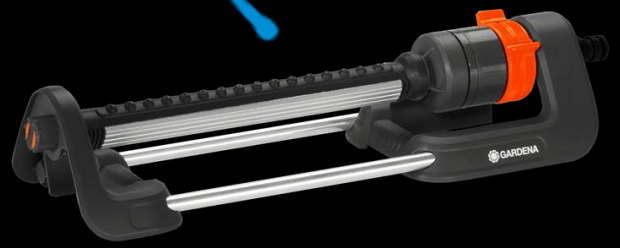
NVIDIA Deepstream

Capture Decode Inference Render Encode

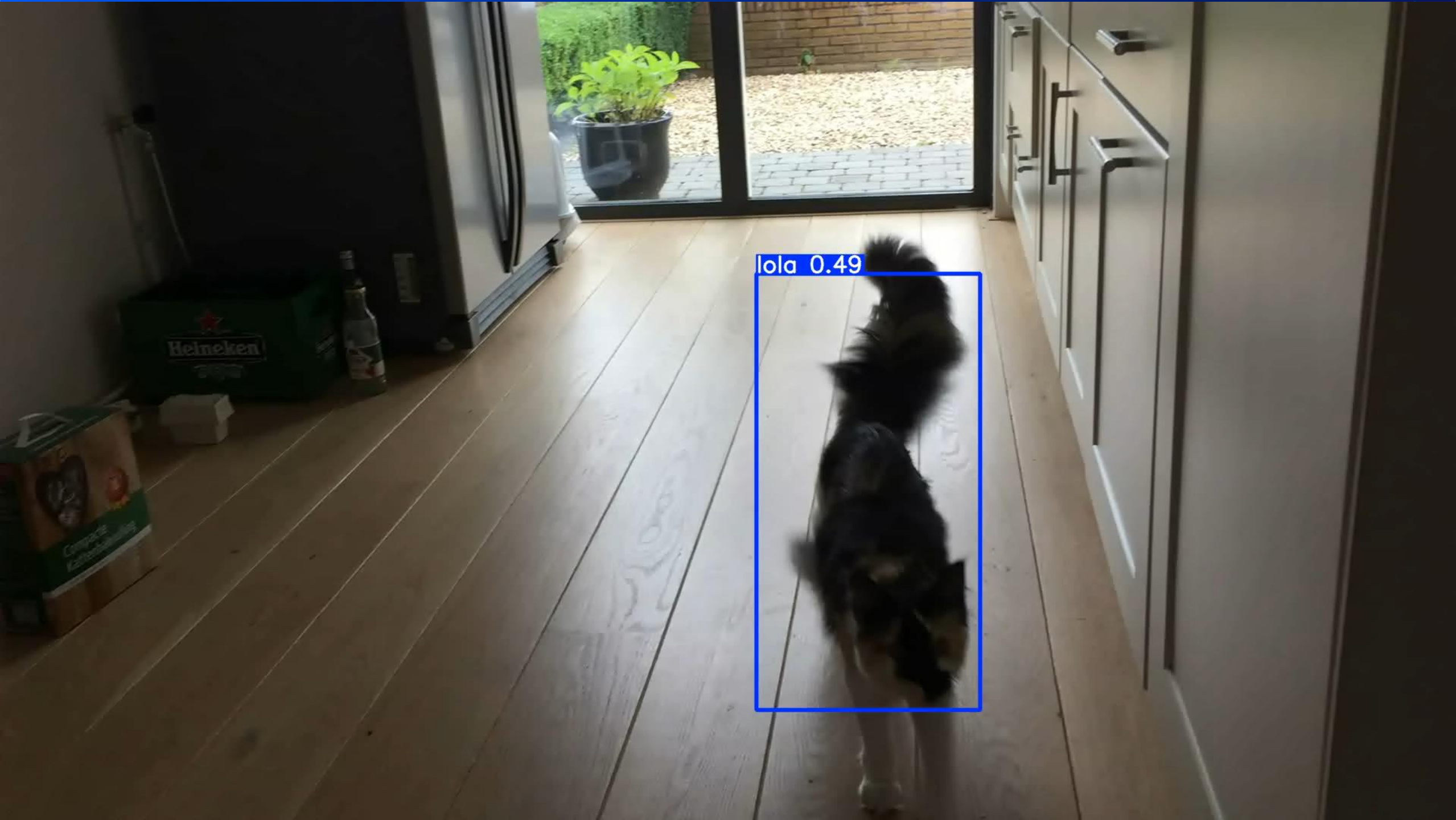
Homey

Scrypted

Shower



Watering System


lola 0.49
Heineken

“Why didn’t you just get a dog?”

~clever engineer during meet-up

Unitree Go2

The New Generation of Embodied AI Creatures, Blending Advanced Robotics with Artificial Intelligence for Unprecedented Functionality.

Who has ever tried to **unbox** a **puppy**?

- Shits everywhere
- Eats news papers
- Listens to nothing
- Doesn’t fetch

Unitree G2 Pro

- Sort-of AI-powered Robot dog
- Crappy SDK
- Doesn’t fetch either

- Tons of sensors, camera & LiDAR
- Endless possibilities
- We needed to train the dog

itq x NVIDIA

- Enhance Q9 with real AI and a proper API
- Train the dog to recognize gestures
- Let Q9 do tricks when a gesture is recognized

Project Q9

Hand Gesture

WebRTC Video Feed

Red Hat OpenShift

NVIDIA

Video Transcoder

WebRTC to RTSP

Real-time Gesture Recognition

Inference Engine

API Call

Q9 API

WebRTC Instructions

ITQ Private AI Platforms

Workload Types

- **AI Experiments**
- **AI Workspace**
- **App Landingzone**

Delivery Types

- K8s Endpoint
- Red Hat Enterprise Linux
- Virtual Machines
- Shared K8s Clusters
- Dedicated K8s Clusters
- Red Hat OpenShift
- OPENSHIFT VIRTUALIZATION
- Red Hat OpenShift AI

GPU Acceleration

- Dedicated & Shared GPUs
- Dedicated & Shared GPUs
- Shared GPUs (RUN:AI)
- Shared GPUs (RUN:AI)

Platform Management

- HashiCorp
- GitLab
- HashiCorp
- GitLab
- Kubeflow
- Grafana

Cloud Infra Platform

- Red Hat
- DELL Technologies
- NVIDIA
- Red Hat
- DELL Technologies
- NVIDIA

Private Cloud Options

- AI Appliance
- Hosted Private AI
- Private Cloud for AI

dynatrace

Platform Compliancy

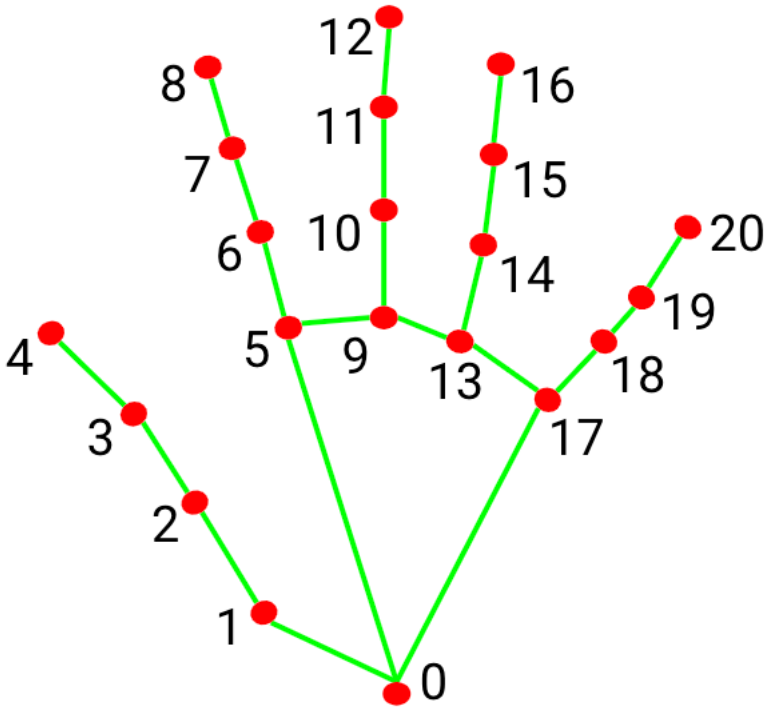
Project Q9

Hand Gestures | Dataset | Labeling | Train Model | Validate Model | Inference Server

Openshift AI Workbench

ITQ AI Appliance

Solution: **Landmarks**



Challenges

- At least 150 pictures per gesture needed
- Model training required when more gestures are required
- Not scalable with complex tasks like sign language

aitq
Empowering your AI journey

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Questions?

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DEMO TIME!