AWS DeepLens Workshops

AWS DEEPLENS
IS NOT A
VIDEO CAMERA...

...IT'S THE
WORLDS FIRST
DEEP LEARNING
ENABLED
DEVELOPER KIT

IN THIS WORKSHOP WE WILL COVER

LAB #1: ML OVERVIEW

LAB #2: DEPLOYING A PROJECT

LAB #3: TRAIN A MODEL IN AMAZON SAGEMAKER

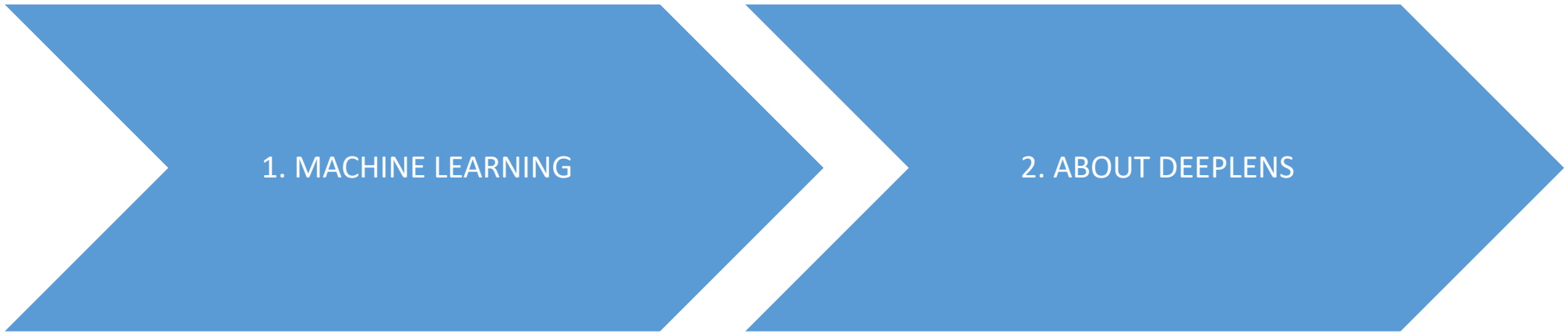
LAB #4: INTEGRATE THE PROJECT WITH OTHER AWS SERVICES

WORKSHOP FORMAT

- Hands-on workshop. Every developer will have an AWS DeepLens set-up
- Length : Half-Day

FOUNDATIONS OF ML

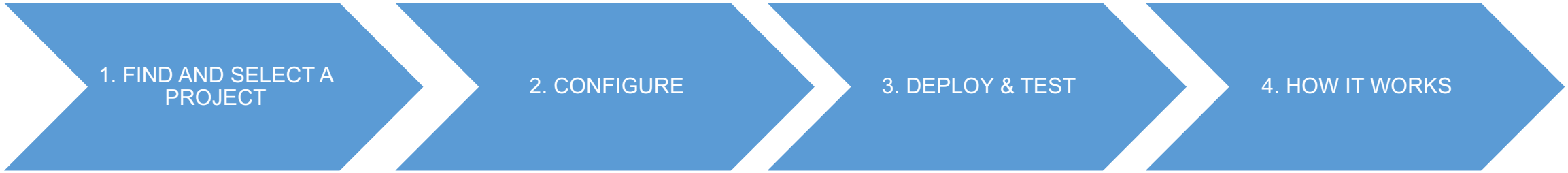
- Objective:
  - Learn key machine learning concepts
  - Deep dive into how DeepLens works
- Time: @30 mins



LAB #1: DEPLOY A PROJECT TO AWS DEEPLENS

- Objective:
  - Learn about sample projects available in AWS DeepLens
  - Deploy a sample project to AWS DeepLens
  - 5 minutes to your first computer vision project

- Time: @30 mins
- Lab Link: https://github.com/mahendrabairagi/DeeplensWorkshop/tree/master/Registration%20and%20project%20deployment



SAMPLE PROJECTS ON AWS DEEPLENS

ARTISTIC STYLE TRANSFER

OBJECT DETECTION

FACE DETECTION / RECOGNITION

ACTIVITY DETECTION

HOT DOG / NOT HOT DOG

CAT VS. DOG

We will deploy any two of these projects during this lab

LAB #2: Train Image classification model in Sagemaker and deploy it on Deeplens, do local lambda inference

- Objective:
  - Learn how to train image classification model on Sagemaker
  - Write lambda to do local inference
  - Extend your project with an AWS integration
- Time: @1 hour
- Lab Link: https://github.com/mahendrabairagi/DeeplensWorkshop/tree/master/SageMakerImageClassification

LAB #3: TRAIN A MODEL IN AMAZON SAGEMAKER and Integrate with Other AWS Services

- Objective:
  - Build a model in Amazon SageMaker
  - Integrate with services such as Rekogntion
  - Import into AWS DeepLens
  - Deploy the model to see it in action!
- Time: @2 hours
- Lab link: https://github.com/mahendrabairagi/DeeplensWorkshop/blob/master/customer-workshops.md

WHAT WILL YOU BUILD WITH

DEEPLENS?