IBM

S1000-014
IBM Maximo Visual Inspection v8.3 Developer Specialty

Questions & Answers PDF

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Question: 1

A client is interested to know how busy their stores are during lunch time. They have pictures from inside the store when it is with clients, and after hours when it is empty. How can a developer leverage the Maximo Visual Inspection capabilities to provide the information requested?
Response:

A. Train an object detection model to identify how many times the door was opened during peak times.
B. Train an action detection model to identify when people are getting in or out of the store.
C. Train a classification model with two categories - empty and full, and perform inference during lunch time.
D. Train an object detection model for identifying people, and count the number of objects in the frame during inference.

Answer: D

Question: 2

After training a Maximo Visual Inspection model for action detection, which metric is available in the model details?
Response:

A. Precision
B. PR Curve Plot
C. Loss Vs Iteration
D. Mean Average Precision (mAP)

Answer: A

Question: 3

What are three of the metrics available in the Maximo Visual Inspection Mobile Dashboard for post inspection analysis?
Response:

A. # of Frames Analyzed
B. # of Collected Photos
C. # of Triggered Inspections
D. % of Fail Rate for Inspection

E. % of Pass Rate for Inspection
F. # of Labels for a Given Model

Answer: B,D,E

Question: 4

An IBM client wants to use Maximo Visual Inspection Mobile to execute real time inspections at their plants. The production line supervisor will perform an inspection prior to packaging. For the given scenario, which mode must be configured on the device?
Response:

A. Mounted mode
B. Handheld mode
C. Supervisor mode
D. Auto-Capture Mode

Answer: B

Question: 5

A wine maker needs to detect whether bottles are full or empty on the production line. They plan to use iPads to perform local inference. How can this be achieved with Maximo Visual Inspection (MVI)?
Response:

A. Local inference cannot be performed for classification models.
B. Train an object detection model with FRCNN and transfer the model to MVI Mobile.
C. Train a classification model and deploy on MVI, and use the API on the iPad for inference.
D. Train a classification model, and select the option to generate a CoreML asset that can be downloaded to MVI Mobile.

Answer: D

Question: 6

When are Trigger Strings used?
Response:

A. only in Demo mode on a handheld device
B. only in Supervisor mode on a mounted device
C. only in Auto-Capture mode on a mounted device
D. only in Multi-Inspection mode on a handheld device

Question: 7

A builder needs to ensure that everyone is using the protection equipment when required. How can computer vision assist in validating that the rules are being followed?
Response:

A. A classification model can be used to identify people in dangerous areas and signal for them to move out.
B. Use a classification model to inspect the rack with hard hats and monitor their removal for usage in the field.
C. A sonar-based device can be used to sense the protection equipment, and translate into images for processing.
D. An object detection model can be trained to identify the safety equipment, such as hard hats, goggles and vests, and trigger alerts when a person is spotted without one of the items in dangerous areas.

Answer: D

Question: 8

Which three image formats are supported in Maximo Visual Inspection?
Response:

A. SVG
B. PNG
C. JPEG
D. DICOM
E. TIFF
F. BMP

Answer: B,C,D

Question: 9

What does the red area on a heat map of an image classification inference result indicate?
Response:

A. area of the picture that is not clear
B. area of the picture that is redundant
C. area of the picture that is of low relevance

D. area of the picture that is of high relevance

Answer: D

Question: 10

When an image is collected using the Collection Mode, what is the value in the PhotoType field in the metadata information?
Response:

A. Training
B. Collecting
C. Inspection
D. Capturing

Answer: A

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