Appendix A: Survey on Computer Vision Model Evaluation

Part One: Basic Information

1. Please select the range of your age. [Select one of the following]

- □ 11-20
- □ 21-30
- □ 31-40
- □ 41-50
- 51-60
- $\Box 60+$

2. Please select your gender. [Select one of the following]

- \Box Male
- \Box Female
- 3. How many years of experience do you have in computer vision? [Select one of the following]
 - $\hfill\square$ less than 1 year
 - $\hfill\square$ 1-3 years
 - \square 3-5 year
 - □ 41-50
 - □ 51-60
 - \Box 60+

Part Two: Current Practice

- 4. What computer vision tasks do you work with? [Select all that apply]
 - $\hfill\square$ Image classification
 - $\hfill\square$ Object detection
 - \Box Image segmentation
 - □ Other: _____

5. What stage of machine learning do you typically work on? [Select all that apply]

- $\hfill\square$ Data collection and processing
- $\hfill\square$ Data labeling
- $\hfill\square$ Model training
- $\hfill\square$ Model evaluation

6. Have you ever worked with multiple tasks (e.g., classification, detection, segmentation) in one application? If so, how many tasks did you work with? [Select one of the following]

- \square No
- $\Box 2$
- \Box 3

7.	How do you evaluate a computer vision model? [Select all that apply]
	□ By analyzing the training logs of the model, including
	□ By using visualization tools, including
	\Box By inspecting the prediction results of a given sample
	□ Other:
8.	What problems do you encounter when using these evaluation methods? [Select all that apply]
	\Box These methods focus on evaluating classification results and do not support the evaluation of more complex prediction results, such as detection results
	\Box Cannot help users identify problems in the training data, e.g., incorrect annotations
	\Box Cannot help users identify the classes where the model performs poorly
	\square Cannot help users compare different models at the class level and instance level
	□ Other:
. .	
Part	Three: Key Features Needed
Part Do v	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model
Part Do y perfo	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance.
Part Do y perfo Uni	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important
Part Do y perfo Uni	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important
Part Do y perfo Uni 9.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks.
Part Do y perfo Uni 9.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant Unimportant Very important
Part Do y perfo Uni 9.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant □ □ □ □ □ □ □ □ □ □ □ Very important Analyzing the overall model performance on the entire dataset.
Part Do y perfo Uni 9.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant □ □ □ □ □ □ □ □ □ □ Very important Analyzing the overall model performance on the entire dataset. Unimportant □ □ □ □ □ □ □ □ Very important
Part Do y perfo Uni 9.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant
Part Do y perfo Uni 9. 10.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant Wery important Analyzing the overall model performance on the entire dataset. Unimportant Wery important Analyzing the model performance on data subsets (e.g., objects with large/small sizes).
Part Do y perfo Uni 9. 10.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant
Part Do y perfo Uni 9. 10. 11.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant
Part Do y perfo Uni 9. 10. 11.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant
Part Do y perfo Uni 9. 10. 11. 12.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant
Part Do y perfo Uni 9. 10. 11. 12.	Three: Key Features Needed ou think the following features can help you analyze and improve computer vision model rmance? Please rate the importance. mportant / Slightly important / Moderately important / Important / Very important A unified evaluation for different computer vision tasks. Unimportant