

AI-BMT User Manual

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1 Introduction

AI-BMT is a benchmarking platform designed to evaluate AI workloads on various hardware configurations. This manual provides detailed instructions for installation, usage, and troubleshooting.

2 Installation and Setup

2.1 System Requirements

- OS & CPU: Windows 10/11 (x86_64), Linux (x86_64 or ARM64), macOS (Apple Silicon: M1/M2/M3/M4).
- CPU RAM: Minimum 2GB

Note 1: For Linux (ARM64), GLIBC version 2.38 or higher is required. For example, Ubuntu 24.04 uses GLIBC 2.39 (≥ 2.38) and is therefore compatible with our platform.

Note 2: MacOS builds are compiled and tested on Apple M4, and are compatible with all Apple Silicon devices (M1 or later).

2.2 Details

For more details about how to build and run the Program please refer to:

- Windows(x86_64, CPP): https://github.com/kinsingo/AI_BMT_GUI_Submitter_Windows/blob/main/ReadMe.md
- Linux(x86_64, CPP): https://github.com/kinsingo/AI_BMT_GUI_Submitter_Linux/blob/main/README.md
- Linux(ARM64, CPP):https://github.com/kinsingo/AI_BMT_GUI_Submitter_Linux_ARM64/blob/main/README.md
- Windows(x86_64, Python): https://github.com/kinsingo/AI_BMT_GUI_Submitter_Windows_Python/blob/main/ReadMe.md
- Linux(x86_64, Python): https://github.com/kinsingo/AI_BMT_GUI_Submitter_Linux_Python/blob/main/ReadMe.md
- Linux(ARM64, Python):https://github.com/kinsingo/AI_BMT_GUI_Submitter_Linux_ARM64_Python/blob/main/ReadMe.md

- MacOS(ARM64, C++):https://github.com/kinsingo/AI_BMT_GUI_Submitter_MacOS_ARM64/blob/main/README.md
- MacOS(ARM64, Python):https://github.com/kinsingo/AI_BMT_GUI_Submitter_MacOS_ARM64_Python/blob/main/ReadMe.md

3 Key Features and Workflows

3.1 Benchmarking Pipeline

- **Model&Dataset Preparation:** Download from the app.
- **Interface Implementation:** Implement the provided interface.
- **Build&Execution:** Runs AI workloads on the target hardware.
- **Results Visualization:** View evaluation result from the app or WAS.

3.2 Step-by-Step Usage Guide

3.2.1 Accessing the WAS

Visit *ai-bmt.com* to access the Web Application Server.

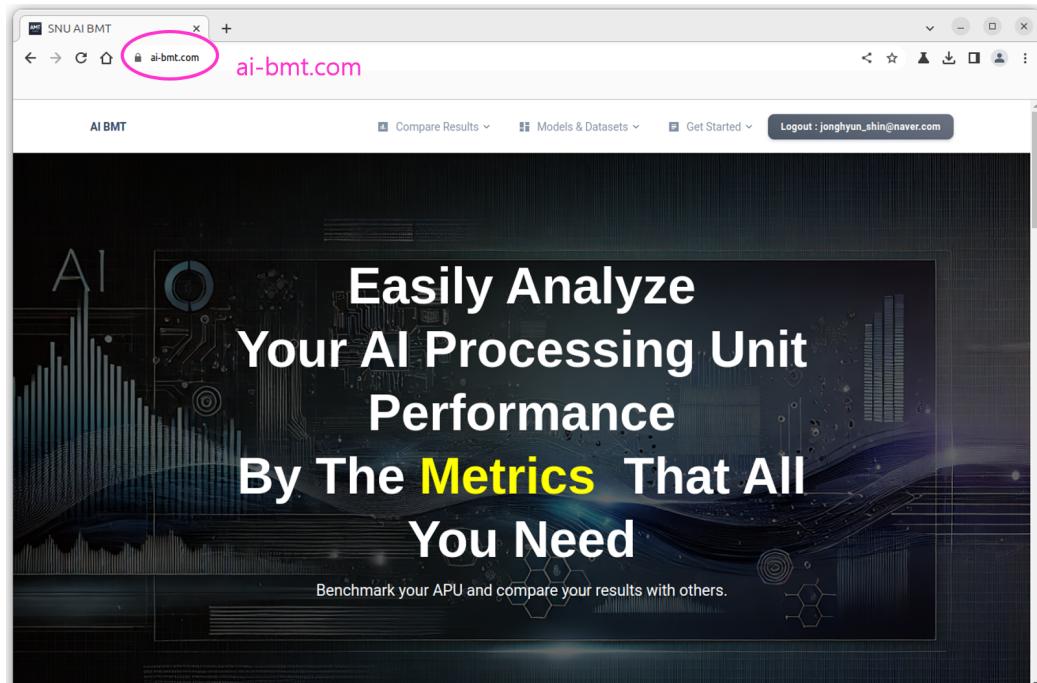


Figure 1: WAS

3.2.2 How to start

Scroll down to the **How to Start** section, then select the evaluation environment considering target language(C++ or Python) CPU architecture(x86_64 or ARM64), Operaring System(Windows or Linux).

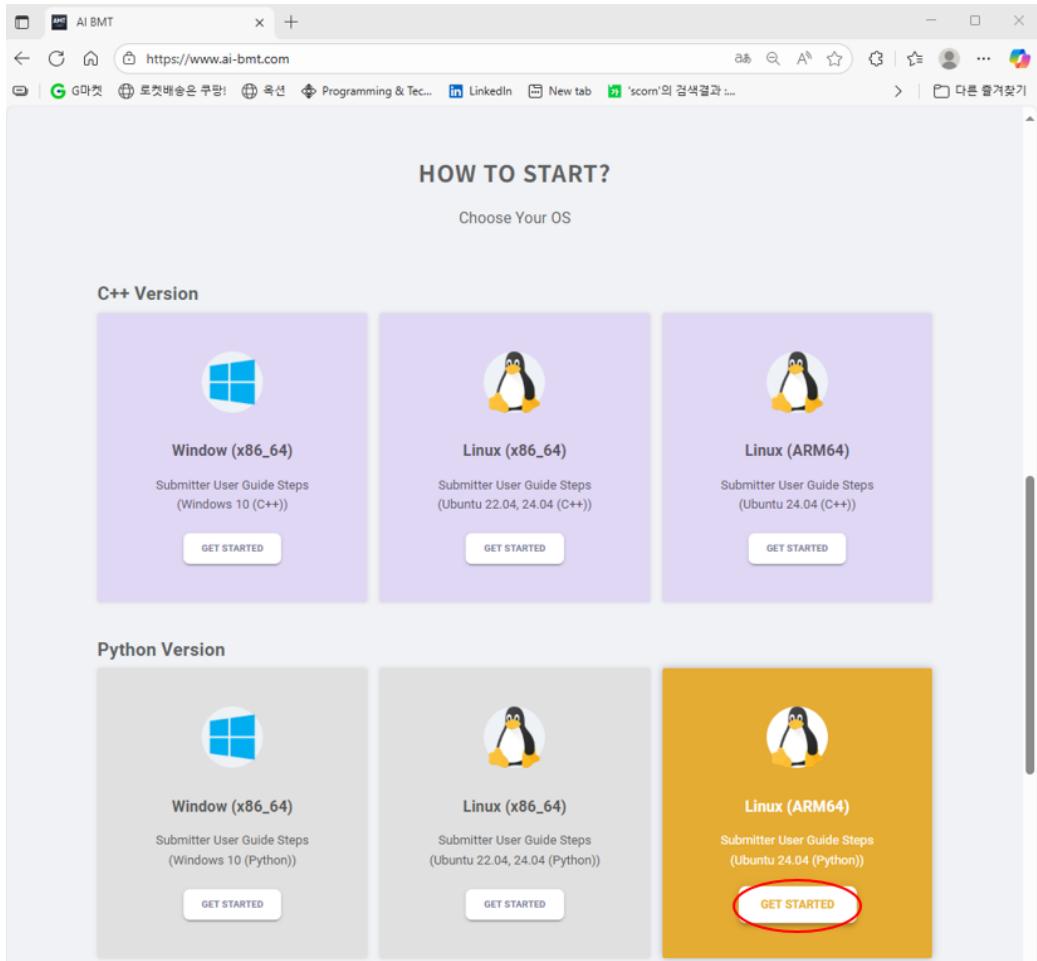


Figure 2: How to start

3.2.3 GitHub Page

As shown in Figure 3, you can copy the repository address from the navigated GitHub page to clone it later.

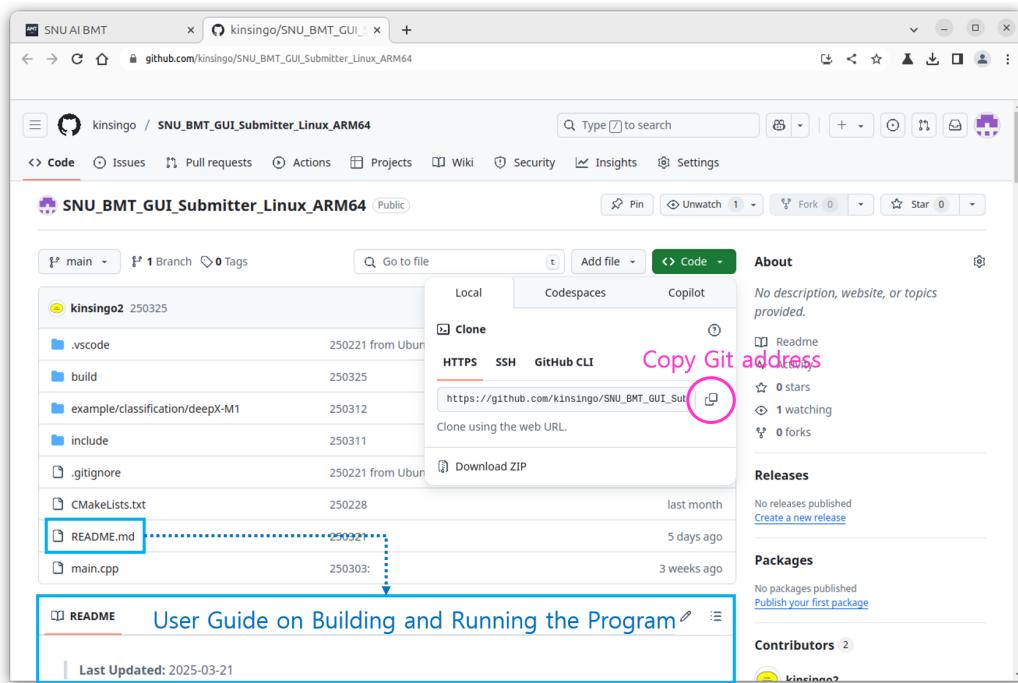


Figure 3: Github Page

3.2.4 Cloning the Git Repository

As shown in Figure 4, clone the copied Git repository address into your preferred directory.

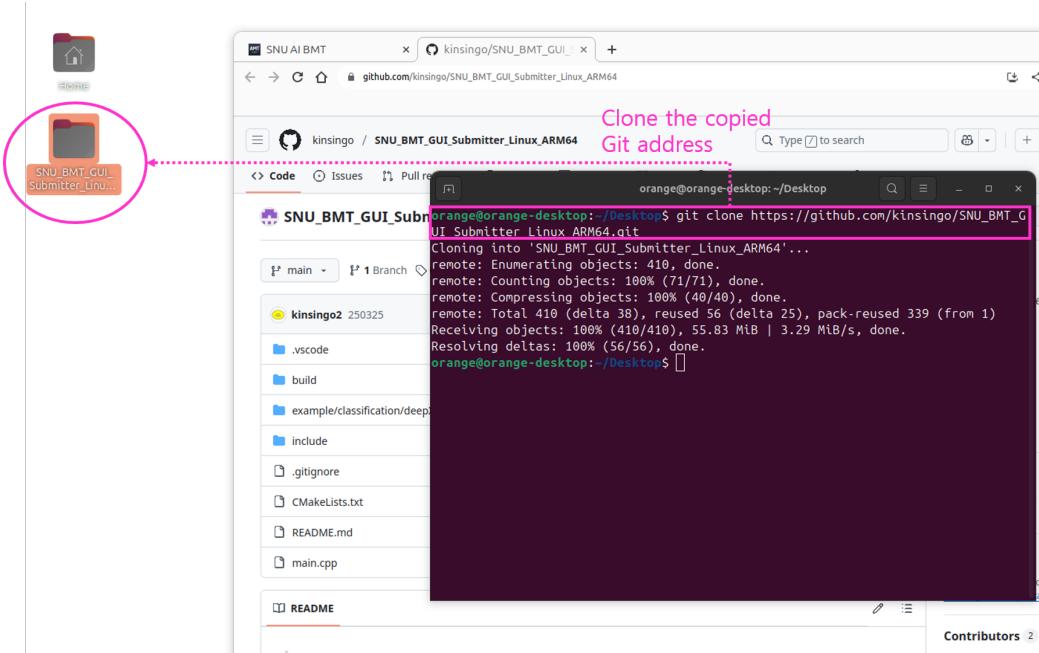


Figure 4: Cloning the Git Repository

3.2.5 How to implement and run program

For instructions on how to implement and run the program, please refer to the **README.md** file on the GitHub page.

3.2.6 GUI Options (1)

As illustrated in Figure 5, the GUI offers intuitive controls for customizing benchmark settings. The numbered components are described as follows:

1. **Task Selection:** The corresponding GUI is shown based on the task type passed from `getInterfaceType()`.
2. **RAM Allocation:** Specify the number of samples to be loaded into RAM at once. A smaller number is recommended to ensure sufficient memory for enabling Double Buffering.
3. **Check Options: Double Buffering** reduces evaluation time by overlapping preprocessing and inference and **Warm-Up** stabilizes hardware before benchmarking.
4. **Minimum Requirements:** If apply official condition, will fix **Min Duration** as 10 minutes and **Min Epochs** as 3.
5. **Scenario Selection:** Choose among **Single-Stream**, **Multi-Stream**, and **Offline** scenarios.
6. **Evaluation Status Panel:** Displays benchmarking logs and status messages in real time.

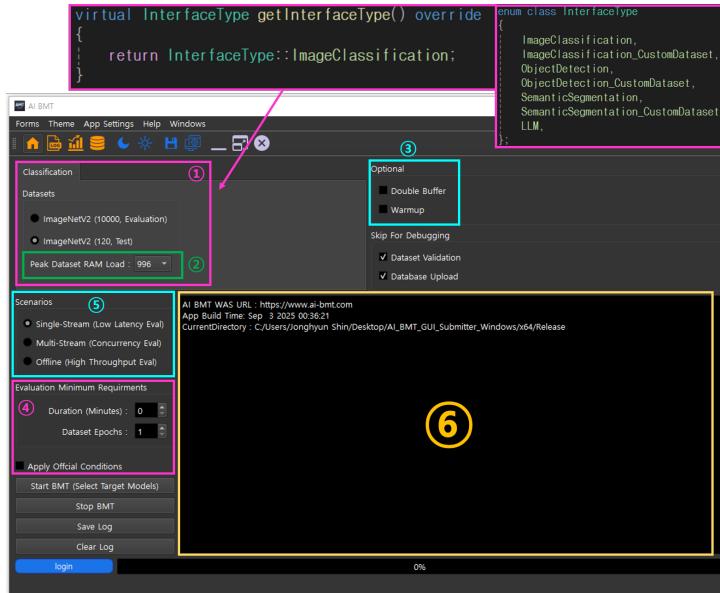


Figure 5: GUI Options (1)

3.2.7 GUI Options (2)

As shown in Figure 6, the GUI includes additional features for usability and benchmarking control. The numbered components are:

1. **Page Navigation:** The leftmost tab is the **Main Page**, followed by the **Log Viewer**, **Data Analysis**, and **Model/Dataset Download** pages. These will be explained in detail later.
2. **Theme Selection:** Allows users to switch between dark and light themes based on personal preference.
3. **Option Save/Load:** Saves the current GUI configuration or loads previously saved settings. The saved options are automatically applied upon restarting the app.
4. **Window Controls:** *Minimize* hides the window to the taskbar, *Maximize/Restore* toggles between full screen and previous size, and *Close* exits the window (or the application if main).

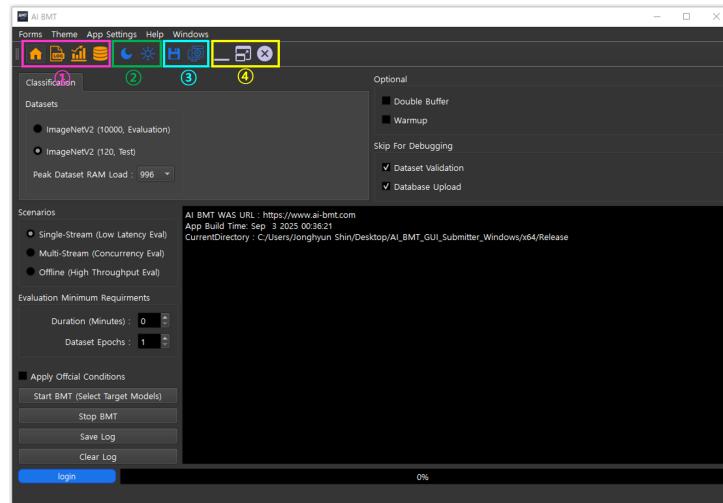


Figure 6: GUI Options (2)

3.2.8 GUI Options (3)

1. **Log Save/Clear:** Saves or clears the current log. Saved .txt log files can be viewed or deleted on the **Log Viewer** page.
2. **Progress Bar:** Displays the progress of time-consuming processes such as dataset validation and epoch evaluations.

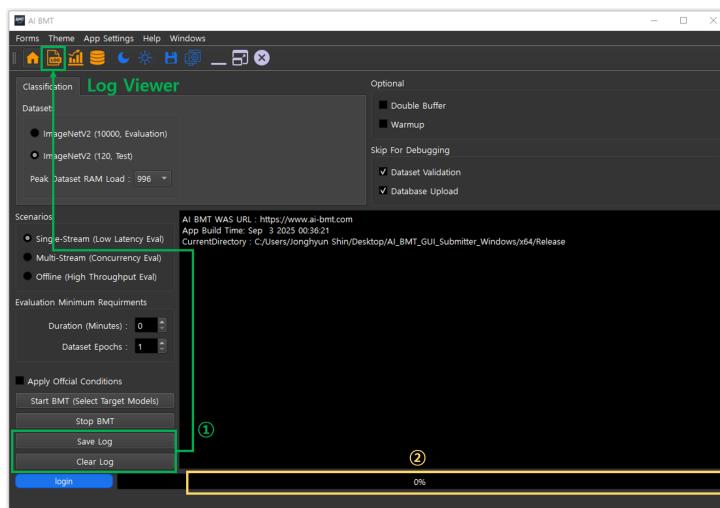


Figure 7: GUI Options (3)

3.2.9 GUI Options (4)

As shown in Figure 8, the GUI provides debugging-oriented options to support the rapid development and testing of the benchmarking interface by the submitters. Notable features include:

1. **Dataset Selection for Debugging:** The GUI offers two types of datasets — a full **Evaluation Set** and a compact **Test Set**. The Test Set, consisting of only 120 representative samples, allows a complete epoch to be executed quickly. This facilitates interface debugging by reducing evaluation time and resource consumption.
2. **Skip For Debugging Options:** To streamline testing, the GUI allows users to skip stages such as **Dataset Validation**, and **Database Upload**. In particular, skipping database upload removes the need for login credentials, enabling evaluations to run in an unauthenticated state.
3. **Stop BMT:** The GUI includes a **Stop** button that allows users to terminate the evaluation process mid-way.

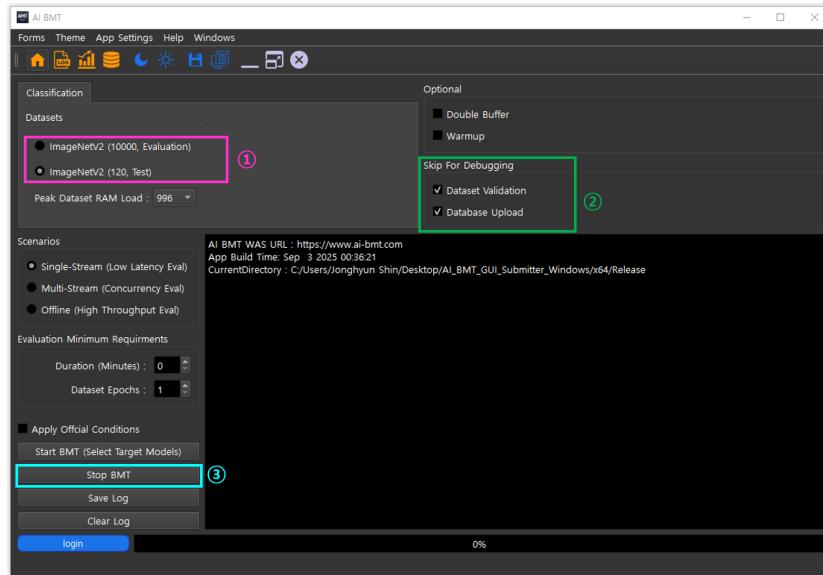


Figure 8: GUI Options (4)

3.2.10 Resizable application window

As shown in Figure 9, the application window can be resized to suit user preferences. The selected window size is also saved when using the **Option Save** feature, and automatically restored upon restarting the application.

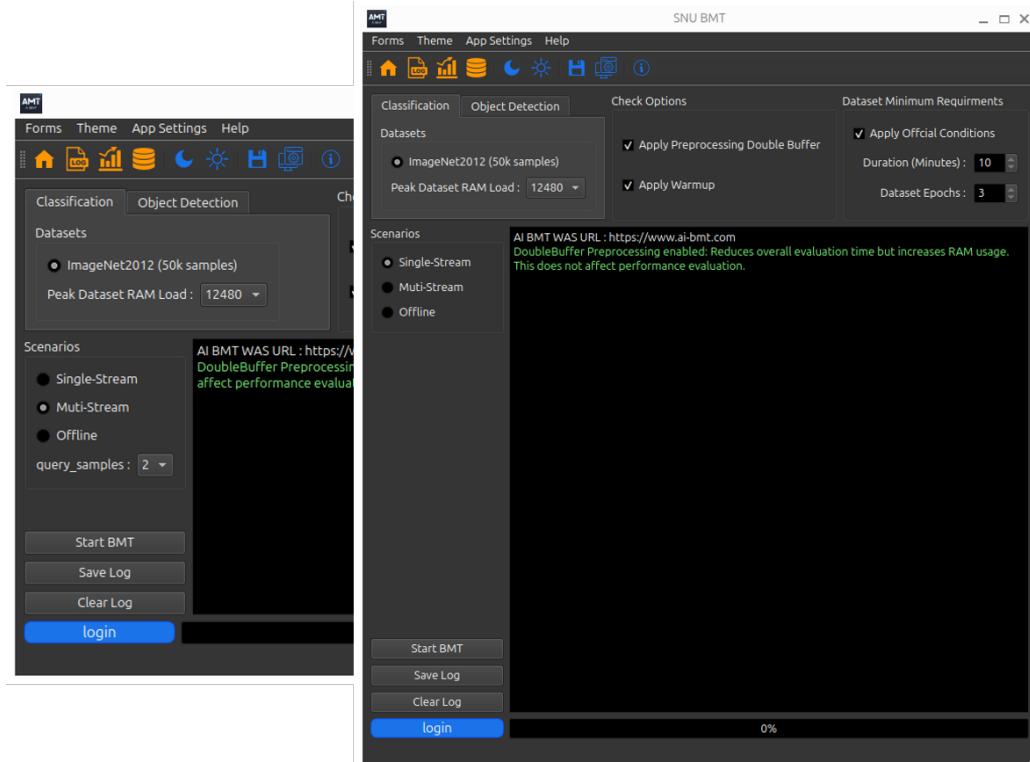


Figure 9: Resizable application window

3.2.11 Start BMT & Authentication

As shown in Figure 10, when the **Start BMT** button is clicked, the user is required to log in before the evaluation begins, if not already authenticated. If the user does not have an account, clicking the **Sign up** link will navigate to the registration page on ai-bmt.com.

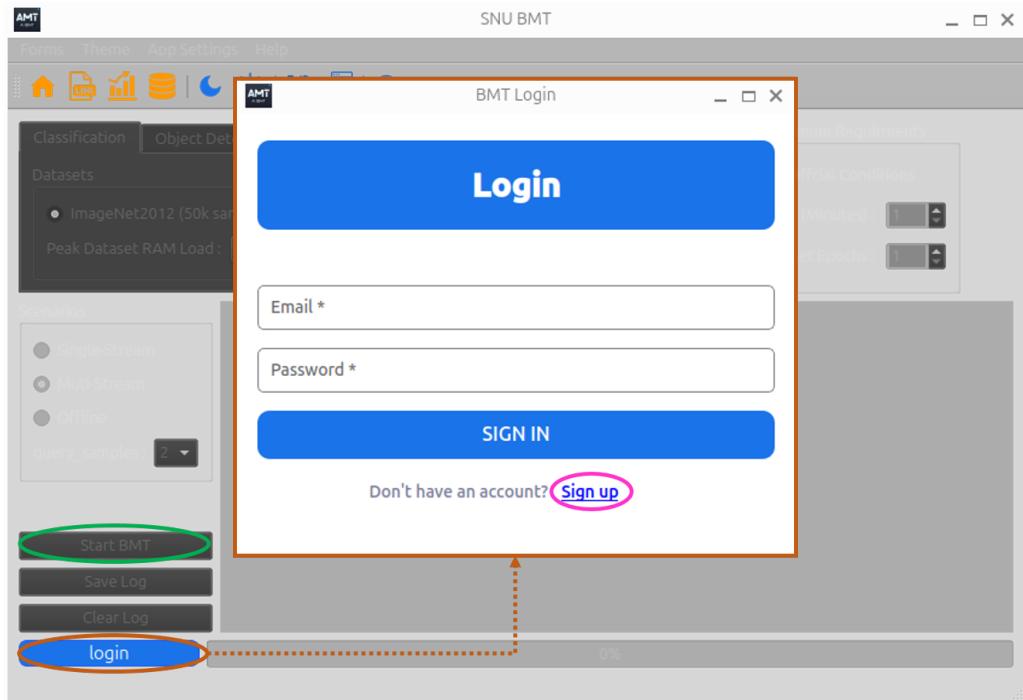


Figure 10: Start BMT & Authentication

3.2.12 Dataset Validation

As shown in Figure 11, if the required dataset for the selected task is missing, the application displays an error message and terminates the evaluation process. In this example, the model file exists and passes the validation check. If the model file was missing, a separate error message would be shown accordingly.

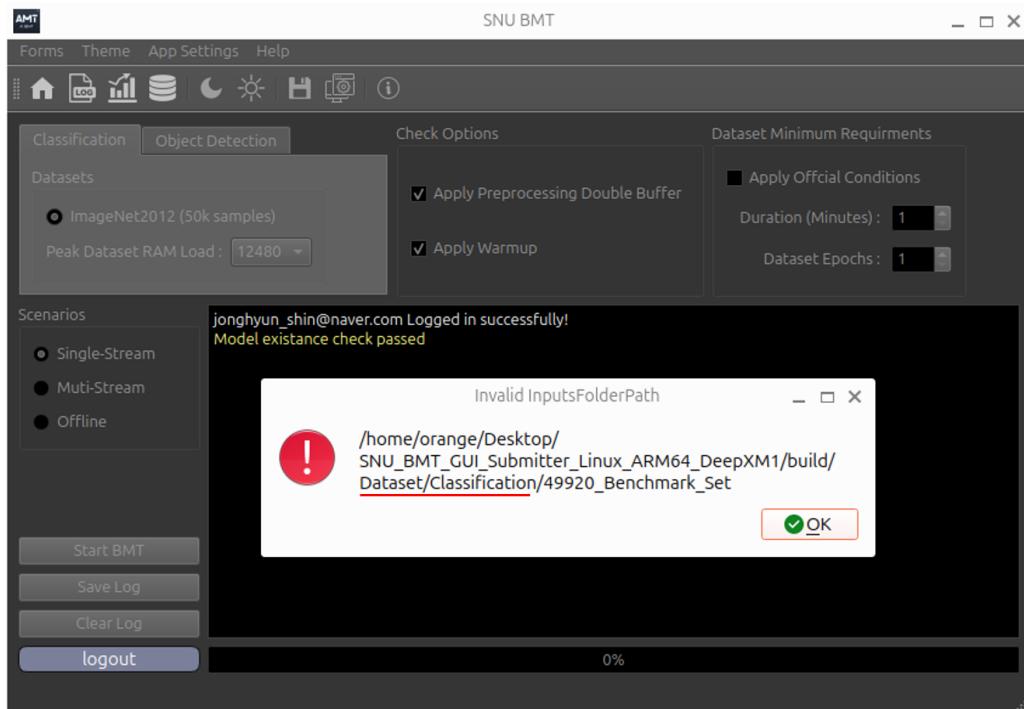


Figure 11: Error message for missing dataset

3.2.13 Model & Dataset Download

As shown in Figure 12, users can download the required model or dataset for each task by clicking the corresponding button. For example, clicking the **ImagenetV2 Dataset Download** button automatically downloads the dataset and label files, extracts them to a predefined directory, and prepares them for evaluation. This entire process, including downloading and extraction, is handled automatically.

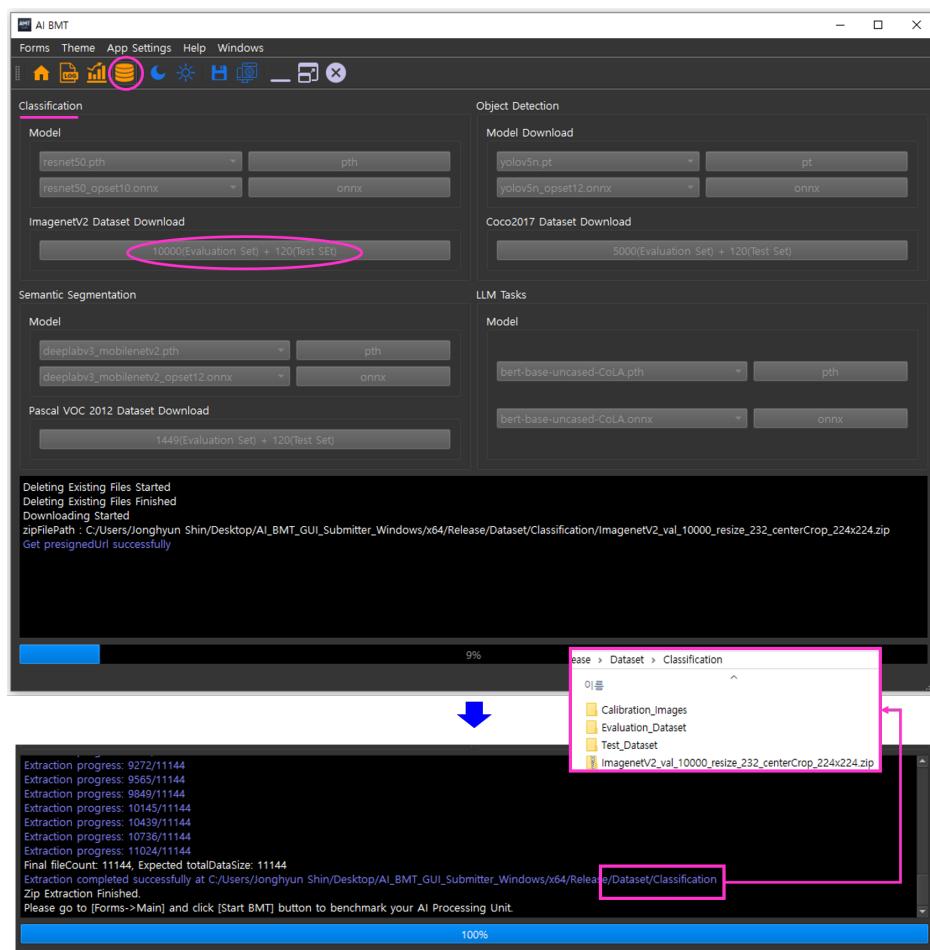


Figure 12: Model & Dataset Download

3.2.14 Benchmark Log Message (1)

As shown in Figure 13, if the **dataset and label validation** and **model existence check** pass, the evaluation begins with the **Warm-Up** process if enabled. In this example, the RAM allocation is set to 4992 samples. Once the first 4992 samples are processed, current evaluation results are displayed, and the system proceeds to the next 4992 samples.

Because **Double Buffering** is enabled, the next 4952 samples are preprocessed and loaded into a separate buffer during the inference of the current 4952 samples. This overlap reduces total evaluation time by avoiding idle periods between data preprocessing and inference.

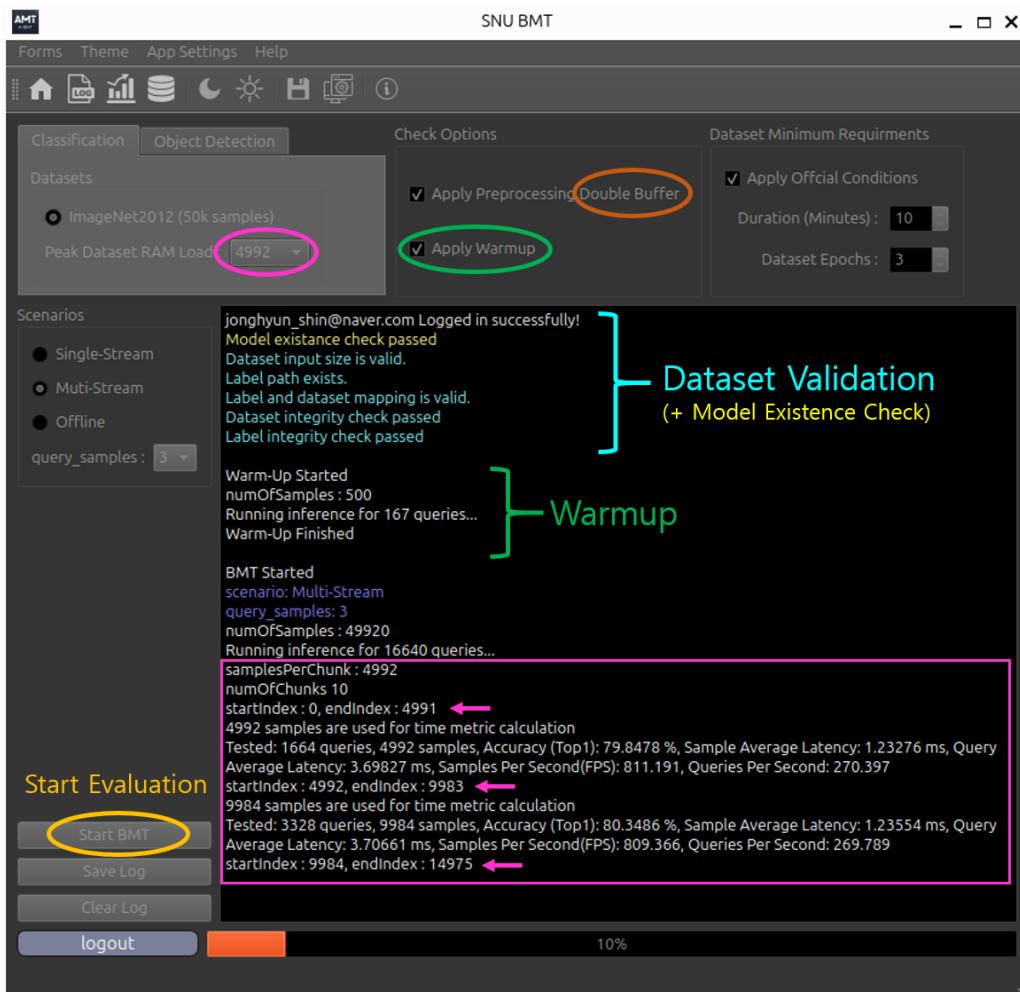


Figure 13: Benchmark Log Message (1)

3.2.15 Benchmark Log Message (2)

As shown in Figure 14, once the first epoch evaluation is completed, the system displays a summary of the current epoch results. It then checks whether the **minimum dataset requirements** are met. Since neither the epoch count nor the time condition is satisfied in this case, a new epoch evaluation is initiated automatically.

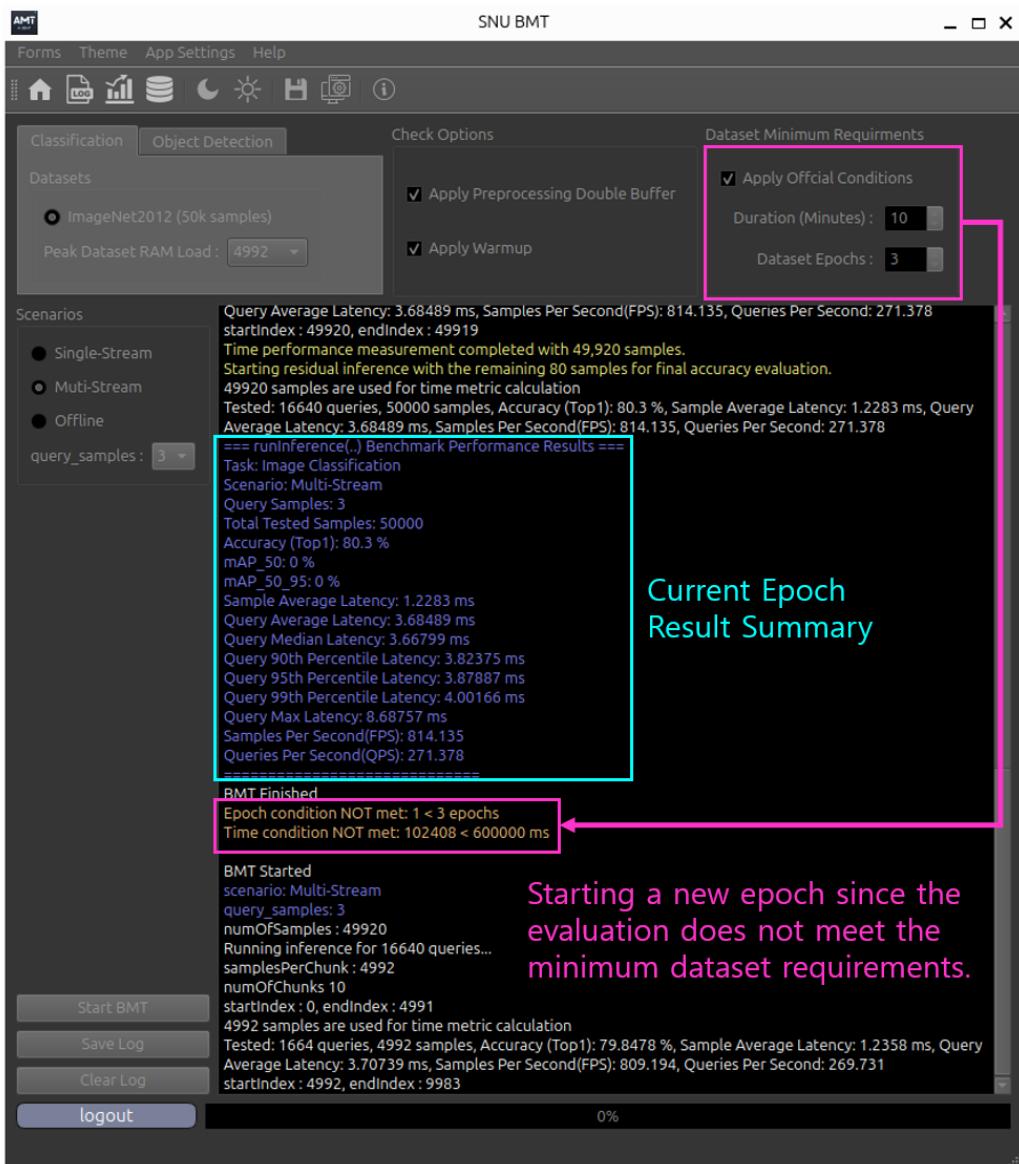


Figure 14: Benchmark Log Message (2)

3.2.16 Benchmark Log Message (3)

As shown in Figure 15, once both the **epoch count** and **time condition** are satisfied after several epochs, the evaluation process is completed. The system then displays the summary of overall performance metrics and uploads the results to the private database associated with the logged-in account.

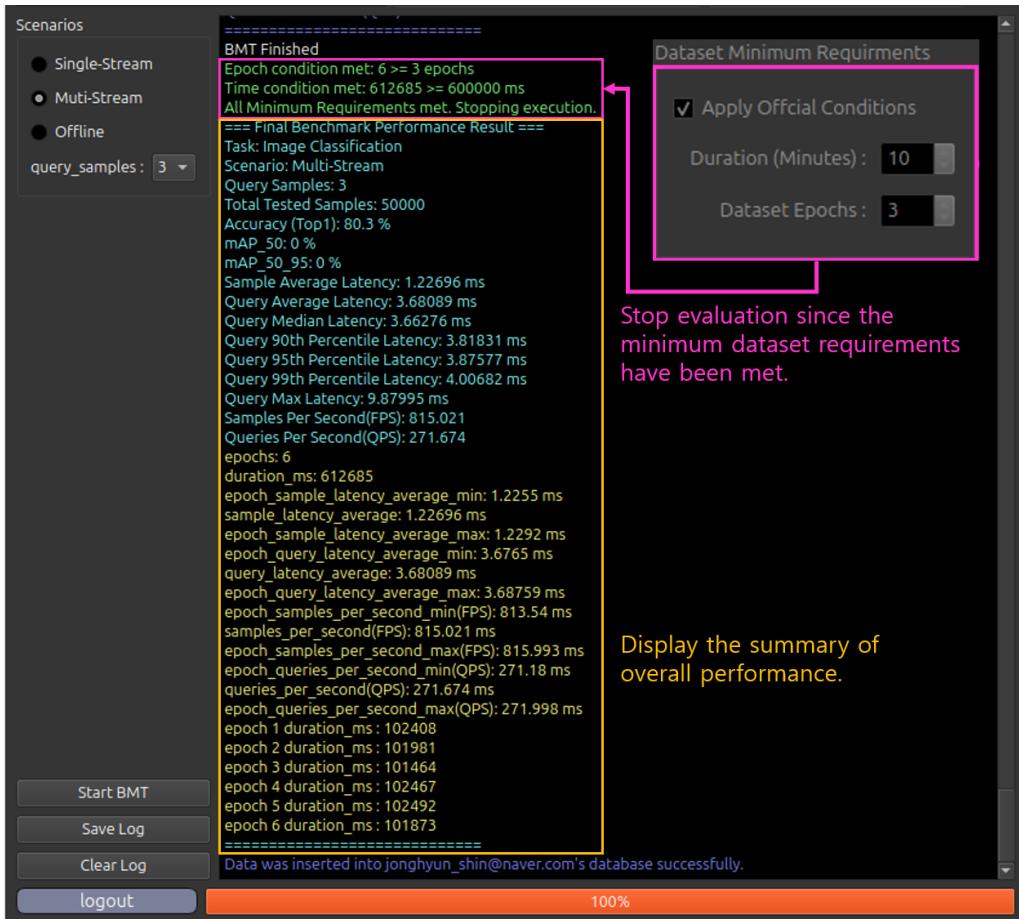


Figure 15: Benchmark Log Message (3)

3.2.17 Log Viewer

As shown in Figure 16, users can save the log messages from the **Evaluation Status Panel** by clicking the **Save Log** button. The log file is stored in the **Logs** directory with a timestamp-based filename. Saved logs can later be viewed within the application using the **Log Viewer** tab.

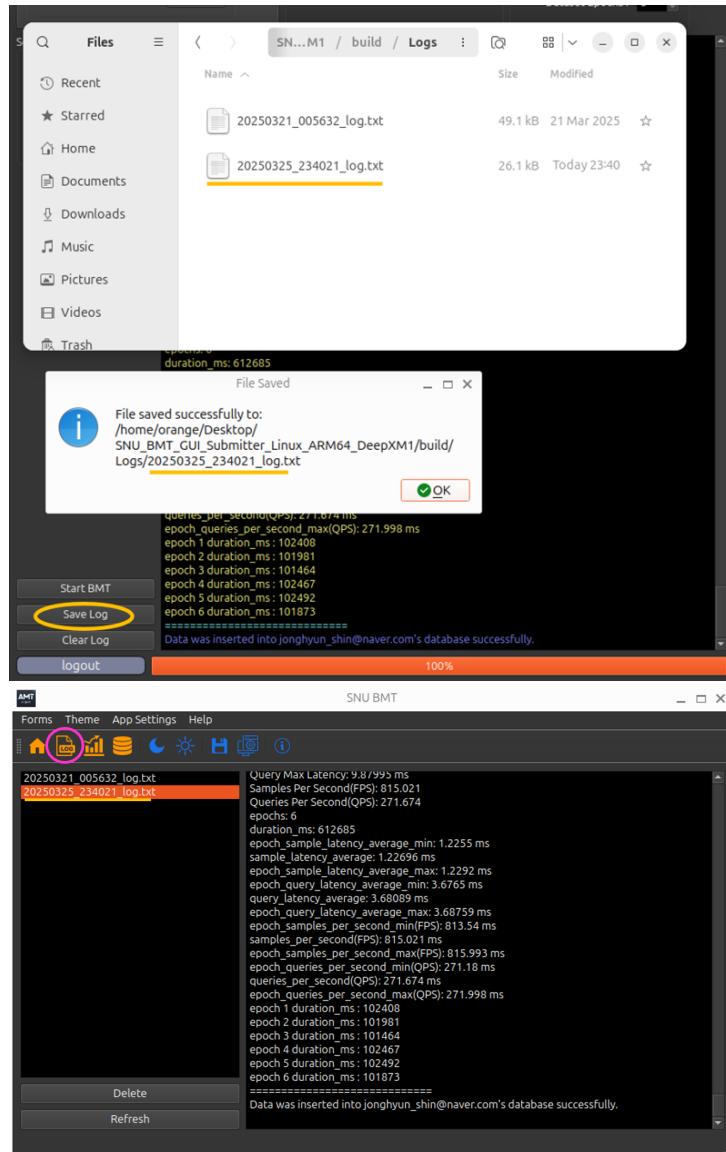


Figure 16: Log Viewer

3.2.18 Dynamic Model Queue Evaluation (DMQE)

As shown in Figure 17, To improve the flexibility and usability of our benchmarking workflow, we introduce **Dynamic Model Queue Evaluation (DMQE)**. This feature enables users to select multiple models interactively at runtime and queue them for sequential evaluation in a single execution session.

DMQE is particularly useful in real-world scenarios where developers or hardware engineers wish to benchmark a diverse set of models under the same platform conditions without restarting the evaluation tool. This streamlined process significantly improves productivity and reduces evaluation burden.

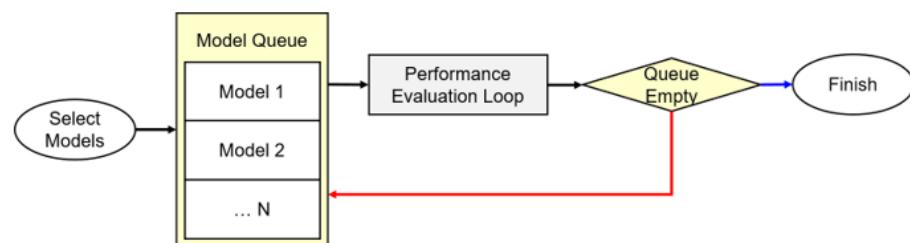
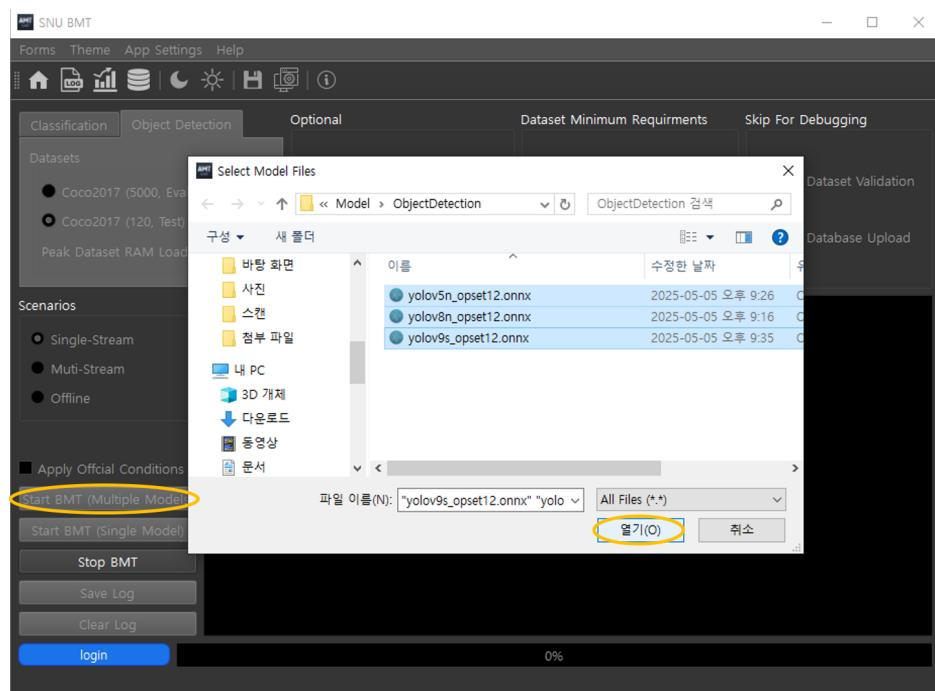


Figure 17: Dynamic Model Queue Evaluation

3.2.19 Multi Task Queue Evaluation (MTQE)

As illustrated in Fig. 18, this feature extends the concept of model-level queuing by enabling mixed queues that interleave heterogeneous task modules (e.g., YOLOv8s (Object Detection) → ResNet50 (Classification) → DeepLabv3 (Segmentation) → Qwen2.5-0.5B (HellaSwag)) within a single execution. This multi-domain queue is implemented via a task-level module abstraction integrated with the overall evaluation workflow. Consistent with BFA’s modular pipeline design, each task is defined as an independent, loosely coupled module that can be dynamically replaced at runtime, allowing on-demand reconfiguration of the evaluation sequence while preserving a consistent overall workflow. In practice, users provide an ordered list of task-specific interface implementations, and AI-BMT executes them sequentially by dynamically switching task-specific modules.

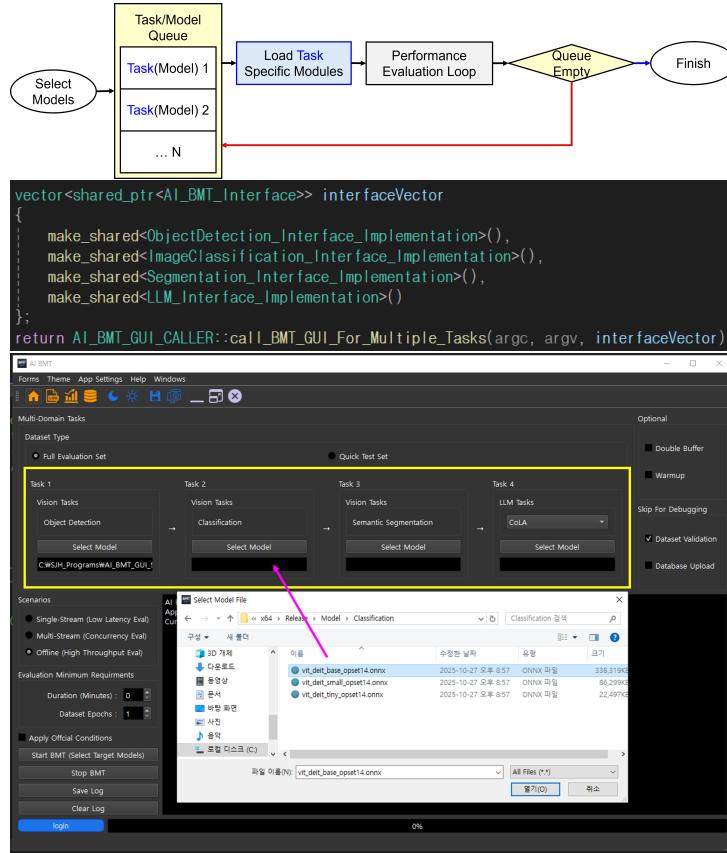


Figure 18: Workflow of Multi-Domain Task Queue Evaluation.

3.2.20 Custom Dataset Evaluation Mode

As shown in Figure 19, users can evaluate their models with a custom dataset. This mode is intended only for engineering and debugging purposes. Results obtained from a custom dataset are **not considered official competition results** and will not be disclosed publicly. It allows participants to verify the performance of their models trained on datasets other than the official benchmark.

To evaluate using custom dataset, you must place it under the directory `/CustomDataset/{TaskName}` following the predefined folder format (e.g., `images/`, `labels.txt`).

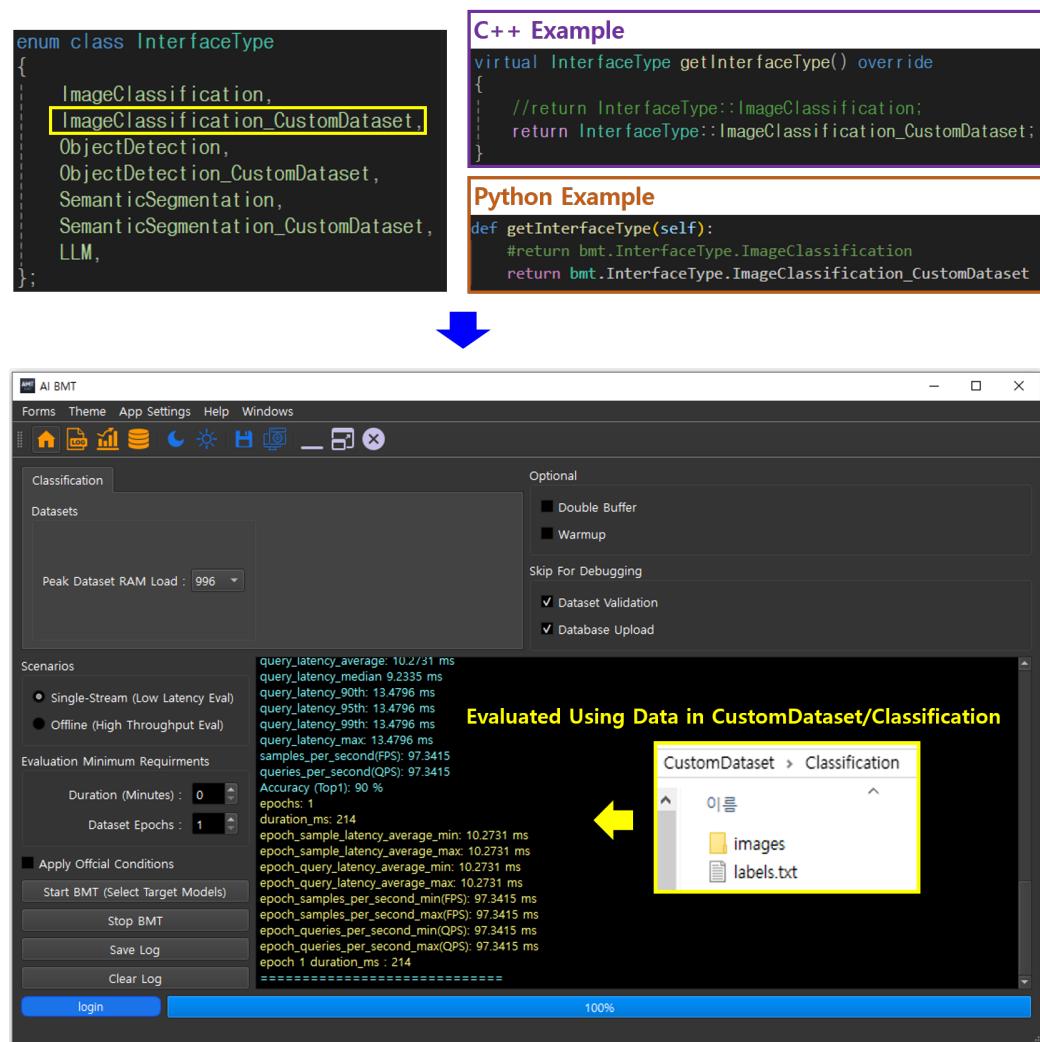


Figure 19: Custom Dataset Evaluation Mode

3.2.21 Data Analysis (App)

As shown in Figure 20, users can analyze their evaluation results retrieved from the database. To access this feature, users can click the **Data Analysis** tab. The most recent evaluation result appears at the top row of the table. Users can **double-click a specific row to delete it**, or **click on a column header to sort the data** in either ascending or descending order. In addition, users can copy selected rows (including headers) using **Ctrl+C**, and paste them into spreadsheet software (e.g., Excel) for further analysis. Alternatively, the entire set of results can be saved as a CSV file using the **Save as CSV file** button.

The figure consists of two screenshots of a software application window titled "SNU BMT".

Top Screenshot: A confirmation dialog box titled "Confirm Deletion" is displayed over the main table. It asks, "Are you sure you want to delete this data?". Two buttons are visible: "No" (red) and "Yes" (green). The "Yes" button is highlighted with a yellow circle.

Bottom Screenshot: A success message box titled "SUCCESS" is displayed. It says, "Data successfully saved as CSV." and has an "OK" button. Below the message, a status bar indicates: "Data was retrieved from jonghyun_shin@naver.com's database successfully. Number of records: 241. To copy the table data, select the rows and press Ctrl+C. The copied data includes headers. CSV File saved successfully: /home/orange/Desktop/data".

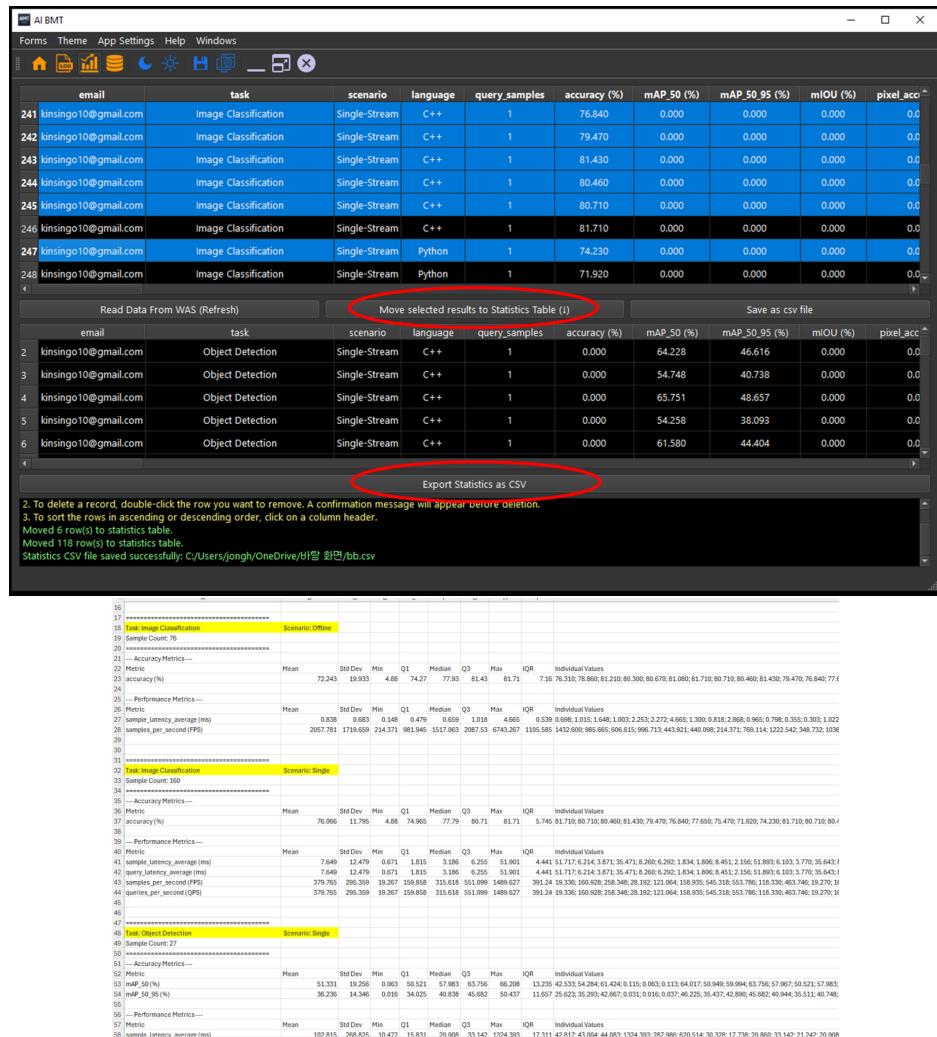
User Interaction: In the bottom screenshot, the "Save as csv file" button at the bottom left is highlighted with a pink oval. A pink dotted line points from this button to a pink-bordered icon of a document labeled "data" located on the right side of the screen.

Figure 20: Data Analysis (App)

3.2.22 Task- and Scenario-wise Statistical Analysis (App)

As shown in Figure 21, users can analyze their evaluation results by first selecting rows in the upper table and clicking the **Move selected results to Statistics Table** button. This action simply transfers the chosen records to the statistics table below, defining the data to be analyzed.

After the analysis target is prepared, clicking the **Export Statistics as CSV** button computes and exports aggregated statistics for each (Task, Scenario) pair. The exported CSV includes **Mean**, **Std**, **Min**, **Q1**, **Median**, **Q3**, **Max**, and **IQR** for accuracy and performance metrics, allowing users to quickly examine performance distribution and variability.



3.2.23 Data Analysis (WAS)

As shown in Figure 22, users can also analyze their evaluation results through the web-based interface provided by the WAS ([ai-bmt.com](https://www.ai-bmt.com/result/private)). By selecting the **My Results (Private)** tab under the **Compare Results** menu, users can view their personal benchmark history. The entire set of results can be downloaded as a CSV file using the **Download Data as CSV** button.

The screenshot shows a web browser displaying the AI-BMT Data Analysis (WAS) interface at the URL <https://www.ai-bmt.com/result/private>. The page has a header with the AI-BMT logo, a navigation bar with links for 'Compare Results', 'Models & Datasets', 'Get Started', and 'Logout: jonghyun_shin@naver.com'. A pink circle highlights the 'Compare Results' dropdown menu. The main content area contains a table of evaluation results. The table has columns for 'EMAIL', 'QUERY_SAMPLES', 'ACCURACY', 'MAP_50', and 'MAP'. The first column 'EMAIL' lists 'jonghyun_shin@naver.com' multiple times. The 'QUERY_SAMPLES' column shows values like 3, 1920, 1, 1, 1, 1, 1, 1, 12480, 12480, 12480, 12480, and 12480. The 'ACCURACY' column shows values like 80.30000000000001, 80.30000000000003, 0.0999999999999999, 80.30000000000001, 80.30000000000001, 80.30000000000001, 80.30000000000001, 80.30000000000001, 80.30000000000001, 80.30000000000001, 80.30000000000001, and 80.30000000000001. The 'MAP_50' and 'MAP' columns both show 'N/A'. A pink circle highlights the 'DOWNLOAD DATA AS CSV' button on the left sidebar. The table rows are highlighted with alternating colors.

EMAIL	QUERY_SAMPLES	ACCURACY	MAP_50	MAP
jonghyun_shin@naver.com	3	80.30000000000001	N/A	
jonghyun_shin@naver.com	1920	80.30000000000003	N/A	
jonghyun_shin@naver.com	1	0.0999999999999999	N/A	
jonghyun_shin@naver.com	1	80.30000000000001	N/A	
jonghyun_shin@naver.com	1	80.30000000000001	N/A	
jonghyun_shin@naver.com	1	80.30000000000001	N/A	
jonghyun_shin@naver.com	1	80.30000000000001	N/A	
jonghyun_shin@naver.com	1	80.30000000000001	N/A	
jonghyun_shin@naver.com	12480	80.30000000000001	N/A	
jonghyun_shin@naver.com	12480	80.30000000000001	N/A	
jonghyun_shin@naver.com	12480	80.30000000000001	N/A	
jonghyun_shin@naver.com	12480	80.30000000000001	N/A	
jonghyun_shin@naver.com	12480	80.30000000000001	N/A	

Figure 22: Data Analysis (WAS)

4 Supported Tasks

For implementation reference, please refer to the provided example code.

4.1 Classification (ImageNetV2 Validation Dataset)

All models below use the same normalization: `mean = [0.485, 0.456, 0.406]`, `std = [0.229, 0.224, 0.225]`. Prior to normalization, pixel values are first converted from uint8 [0, 255] to float [0, 1] by dividing by 255.0. No resizing or cropping is required, as the provided dataset has already undergone such preprocessing. See the example code for reference.

We use the ImageNetV2-top-images subset, which closely mirrors the distribution of the original ImageNet validation set.

All classification models are provided in both `.pth` and `.onnx` formats. The `.pth` models were evaluated in Python, and the `.onnx` models in C++, yet both achieved the same accuracy, as they share the same preprocessing pipeline.

Model	Top-1 Accuracy (%)	Params (M)
ResNet50	81.40	25.56
ResNet101	82.61	44.55
MobileNet_V2	74.76	3.50
MobileNet_V3_Large	76.77	5.48
RegNet_X_400MF	76.34	5.50
RegNet_Y_400MF	77.70	4.34
RegNet_X_800MF	78.55	7.26
RegNet_Y_800MF	80.32	6.43
ResNeXt50_32x4d	81.93	25.03
Wide_ResNet50_2	82.18	68.88
vit_deit_tiny	74.40	5.72
vit_deit_small	80.96	22.05
vit_deit_base	82.30	86.57

4.2 Object Detection (Coco17 Validation Dataset)

Submitters are only required to normalize the image by dividing pixel values by 255.0. No resizing or padding is required, as the provided dataset has already undergone such preprocessing. See the example code for reference.

Object detection performance is evaluated using the official `pycocotools` implementation of `COCOeval` with its default settings. This allows for standardized and reliable comparison across submissions without requiring custom metric implementation.

All evaluations are performed within the application under fixed conditions using a confidence threshold of 0.001 and an NMS IoU threshold of 0.65, ensuring consistent mAP results.

All Object Detection models are provided in .pt and .onnx format.

Model	mAP_50_95 (%)	mAP_50 (%)	Params (M)
YOLOv5n	27.22	44.43	1.9
YOLOv5s	36.26	55.32	7.2
YOLOv5m	43.43	62.03	21.2
YOLOv5nu	33.26	48.88	2.6
YOLOv5su	41.48	58.55	9.1
YOLOv5mu	46.61	63.77	25.1
YOLOv8n	36.15	51.68	3.2
YOLOv8s	43.53	60.60	11.2
YOLOv8m	47.96	65.40	25.9
YOLOv9t	36.89	51.99	2.0
YOLOv9s	44.79	61.23	7.2
YOLOv9m	49.00	66.20	20.1
YOLOv10n	37.68	53.98	2.3
YOLOv10s	44.70	62.27	7.2
YOLOv10m	48.53	66.39	15.4
YOLO11n	38.09	54.25	2.6
YOLO11s	44.41	61.57	9.4
YOLO11m	48.66	65.76	20.1
YOLO12n	39.56	55.77	2.6
YOLO12s	45.64	62.78	9.3
YOLO12m	49.82	67.25	20.2

4.3 Semantic Segmentation (VOC 2012 Validation Dataset)

Normalization uses `mean = [0.485, 0.456, 0.406]` and `std = [0.229, 0.224, 0.225]` for most models, while `deeplabv3_mobilenet_v2` uses `mean = [0.5, 0.5, 0.5]` and `std = [0.5, 0.5, 0.5]`.

No resizing or padding is required, as the provided validation dataset has already undergone such preprocessing. See the example code for implementation details.

We use the official PASCAL VOC 2012 validation set for evaluation. All Object Detection models are provided in .pth and .onnx format.

Model	mIOU (%)	Pixel Acc (%)	Params (M)
deeplabv3_mobilenet_v2	73.64	93.68	2.53
deeplabv3_mobilenet_v3_large	69.91	92.52	11.0
deeplabv3_resnet50	77.53	94.87	42.0
deeplabv3_resnet101	79.00	95.36	61.0
fcn_resnet50	72.54	93.82	35.3
fcn_resnet101	75.79	94.69	54.3

4.4 Encoder LLM Tasks

For evaluating Large Language Models (LLMs), we adopt a subset of GLUE benchmark tasks. Each task measures a different aspect of natural language understanding, ranging from linguistic acceptability to semantic similarity. We report metrics consistent with GLUE’s official evaluation protocol, using MobileBERT, DistilBERT, and BERT as baselines.

4.4.1 CoLA

Judges whether a sentence is grammatically acceptable. This probes the model’s sensitivity to linguistic form and robustness to tokenization quirks. Metric: Matthews Correlation (MCC).

Model	MCC	Params (M)
mobilebert-base-uncased-CoLA	0.528	24.58
distilbert-base-uncased-CoLA	0.569	66.96
bert-base-uncased-CoLA	0.534	109.48

4.4.2 SST-2

Binary sentiment classification (positive vs. negative). Useful baseline for opinion mining and review classification. Metric: Accuracy.

Model	Accuracy (%)	Params (M)
mobilebert-base-uncased-SST-2	90.37	24.58
distilbert-base-uncased-SST-2	91.06	66.96
bert-base-uncased-SST-2	92.43	109.48

4.4.3 STS-B

Semantic Textual Similarity: predicts similarity scores (0–5). Relevant to retrieval, ranking, and clustering. Metrics: Pearson and Spearman correlations.

Model	Pearson	Spearman	Params (M)
mobilebert-base-uncased-STS-B	0.877	0.874	24.58
distilbert-base-uncased-STS-B	0.867	0.864	66.96
bert-base-uncased-STS-B	0.880	0.876	109.48

4.4.4 QNLI

Question-answering relevance framed as entailment. Tests the ability to link questions to supporting evidence sentences. Metric: Accuracy.

Model	Accuracy (%)	Params (M)
mobilebert-base-uncased-QNLI	90.68	24.58
distilbert-base-uncased-QNLI	88.49	66.96
bert-base-uncased-QNLI	91.54	109.48

4.5 Decoder LLM Tasks

For decoder-style LLMs, we adopt commonsense reasoning benchmarks such as HellaSwag. These tasks test the model’s ability to generate coherent continuations grounded in context, requiring both world knowledge and reasoning beyond surface-level cues. We report classification accuracy consistent with HellaSwag’s official evaluation protocol.

4.5.1 HellaSwag

Judges whether a model can select the most plausible continuation of a given context among four candidates. This probes commonsense reasoning ability and robustness to superficial lexical overlap. Metric: Accuracy.

Model	Accuracy	Params (M)
gpt2	29.02	124.44
gpt2-medium	33.21	354.82
gpt-neo-125M	28.45	125.20
distilgpt2	27.30	81.91
opt-125m	29.22	125.24
opt-350m	31.85	331.20

5 Known Limitations and FAQs

5.1 Current Limitations

- **Manual model validation:**

The platform currently requires a manual audit process to ensure that model weights remain unchanged. This highlights the need for automated validation methods to ensure fairness and reduce the audit workload.

- **Lack of power and thermal efficiency metrics:**

Power consumption and thermal behavior are not yet supported. These features require the development of dedicated hardware modules and integration with the BMT application.

5.2 Frequently Asked Questions

- **Does the platform support auto-login?**

No. This feature is not currently supported, but it will be added in a future update. (Auto-login will be available after the first-time login)