

Rules and Constraints

This is a **gradient-free learning challenge** hosted on **Kaggle**.

Disallowed Methods

Participants must **not** use:

- Backpropagation or automatic differentiation
- Numerical or finite-difference gradient estimation
- Gradient-based optimizers (SGD, Adam, RMSProp, etc.)
- Pretrained models or externally trained weights
- AutoML systems that internally rely on gradients
- Any use of test labels or test data leakage

Violation of these rules may lead to disqualification.

Allowed Methods

Participants may use:

- Forward-only model evaluation
 - Scalar loss or score feedback
 - Randomized or perturbation-based optimization
 - Evolutionary and population-based methods
 - Classical machine learning models
 - Rule-based or hybrid approaches
 - Neural networks trained strictly without gradients
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Data Usage

- Only the datasets provided on Kaggle may be used
 - The training dataset includes labels
 - The test dataset is provided without labels
 - External datasets are not allowed unless explicitly stated
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Submission Instructions

- Train your model using the training dataset
 - Generate predictions for all samples in the test dataset
 - Create a CSV file matching `sample_submission.csv`
 - The submission file must contain:
 - `id`: row index of the test sample
 - `target`: predicted label or value
 - Upload the CSV file on the Kaggle competition page
 - Submissions are scored automatically on the hidden test set
 - Multiple submissions are allowed; the leaderboard reflects the best score
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Evaluation

- Submissions are evaluated using the metric specified on the Kaggle leaderboard
 - Rankings are based solely on performance on the hidden test set
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Enforcement

Participants must be able to clearly explain how their training process avoids gradients. Any attempt to bypass the gradient-free constraint violates the spirit of the competition.

Summary

You may compute a loss.

You may not compute its gradient.