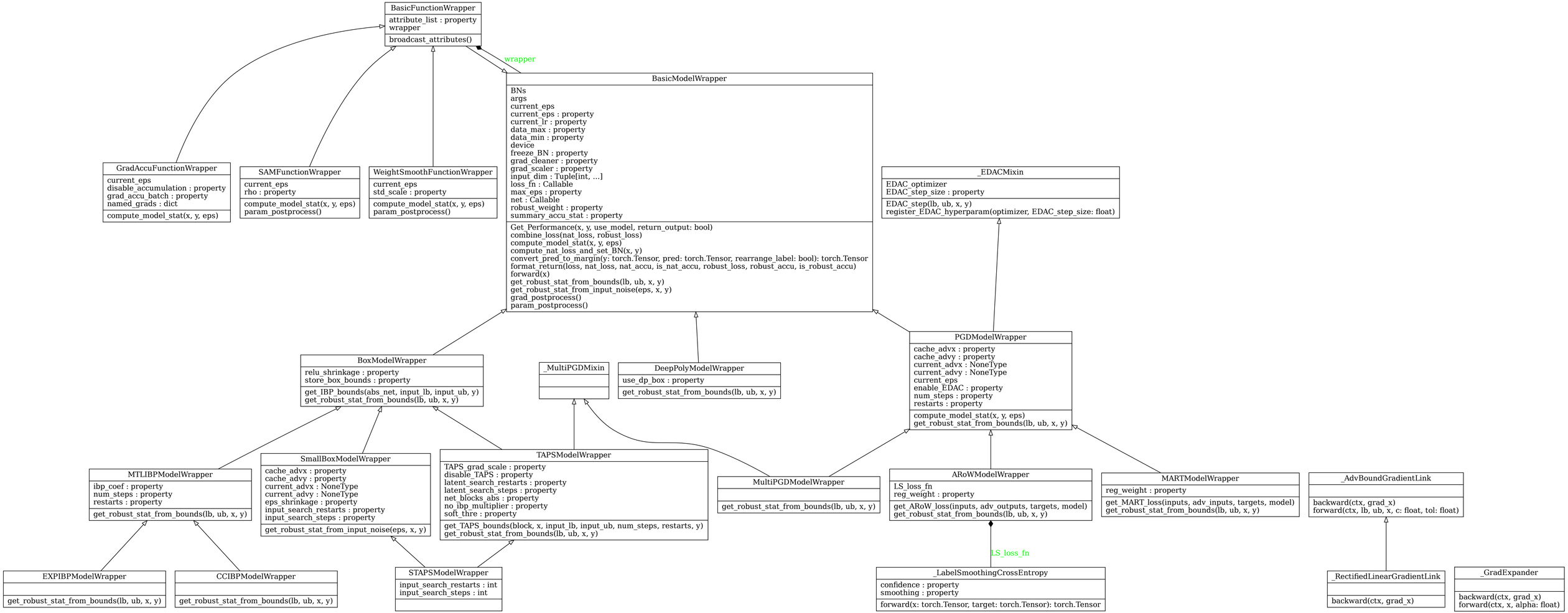
BasicFunctionWrapper
attribute_list : property
wrapper
broadcast_attributes()
wrapper
BasicModelWrapper
BNs
args
current_eps
current_eps : property
current_lr : property
data_max : property
data_min : property
device
freeze_BN : property
grad_cleaner : property
grad_scaler : property
input_dim : Tuple[int, ...]
loss_fn : Callable
max_eps : property
net : Callable
robust_weight : property
summary_accu_stat : property
Get_Performance(x, y, use_model, return_output: bool)
combine_loss(nat_loss, robust_loss)
compute_model_stat(x, y, eps)
compute_nat_loss_and_set_BN(x, y)
convert_pred_to_margin(y: torch.Tensor, pred: torch.Tensor, rearrange_label: bool): torch.Tensor
format_return(loss, nat_loss, nat_accu, is_nat_accu, robust_loss, robust_accu, is_robust_accu)
forward(x)
get_robust_stat_from_bounds(lb, ub, x, y)
get_robust_stat_from_input_noise(eps, x, y)
grad_postprocess()
param_postprocess()
GradAccuFunctionWrapper
current_eps
disable_accumulation : property
grad_accu_batch : property
named_grads : dict
compute_model_stat(x, y, eps)
SAMFunctionWrapper
current_eps
rho : property
compute_model_stat(x, y, eps)
param_postprocess()
WeightSmoothFunctionWrapper
current_eps
std_scale : property
compute_model_stat(x, y, eps)
param_postprocess()
_EDACMixin
EDAC_optimizer
EDAC_step_size : property
EDAC_step(lb, ub, x, y)
register_EDAC_hyperparam(optimizer, EDAC_step_size: float)
BoxModelWrapper
relu_shrinkage : property
store_box_bounds : property
get_IBP_bounds(abs_net, input_lb, input_ub, y)
get_robust_stat_from_bounds(lb, ub, x, y)
_MultiPGDMixin
DeepPolyModelWrapper
use_dp_box : property
get_robust_stat_from_bounds(lb, ub, x, y)
PGDModelWrapper
cache_advx : property
cache_advy : property
current_advx : NoneType
current_advy : NoneType
current_eps
enable_EDAC : property
num_steps : property
restarts : property
compute_model_stat(x, y, eps)
get_robust_stat_from_bounds(lb, ub, x, y)
MTLIBPModelWrapper
ibp_coef : property
num_steps : property
restarts : property
get_robust_stat_from_bounds(lb, ub, x, y)
SmallBoxModelWrapper
cache_advx : property
cache_advy : property
current_advx : NoneType
current_advy : NoneType
eps_shrinkage : property
input_search_restarts : property
input_search_steps : property
get_robust_stat_from_input_noise(eps, x, y)
TAPSModelWrapper
TAPS_grad_scale : property
disable_TAPS : property
latent_search_restarts : property
latent_search_steps : property
net_blocks_abs : property
no_ibp_multiplier : property
soft_thre : property
get_TAPS_bounds(block, x, input_lb, input_ub, num_steps, restarts, y)
get_robust_stat_from_bounds(lb, ub, x, y)
MultiPGDModelWrapper
get_robust_stat_from_bounds(lb, ub, x, y)
ARoWModelWrapper
LS_loss_fn
reg_weight : property
get_ARoW_loss(inputs, adv_outputs, targets, model)
get_robust_stat_from_bounds(lb, ub, x, y)
MARTModelWrapper
reg_weight : property
get_MART_loss(inputs, adv_inputs, targets, model)
get_robust_stat_from_bounds(lb, ub, x, y)
_AdvBoundGradientLink
backward(ctx, grad_x)
forward(ctx, lb, ub, x, c: float, tol: float)
EXPIBPModelWrapper
get_robust_stat_from_bounds(lb, ub, x, y)
CCIBPModelWrapper
get_robust_stat_from_bounds(lb, ub, x, y)
STAPSModelWrapper
input_search_restarts : int
input_search_steps : int
LS_loss_fn
_LabelSmoothingCrossEntropy
confidence : property
smoothing : property
forward(x: torch.Tensor, target: torch.Tensor): torch.Tensor
_RectifiedLinearGradientLink
backward(ctx, grad_x)
_GradExpander
backward(ctx, grad_x)
forward(ctx, x, alpha: float)