

LightGBM Interpolation - 大阪府 - 2025/5/12 19H

$$\hat{y} = \frac{1}{T} \sum_{t=1}^T f_t(x)$$

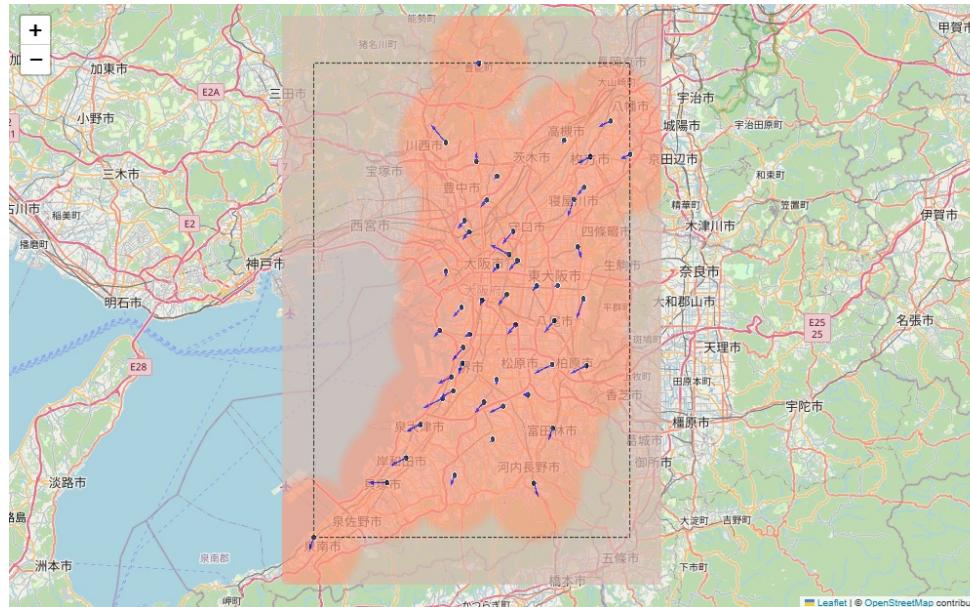
\hat{y} : predicted value (e.g., Ox concentration)

T : total number of trees in the forest

$f_t(x)$: prediction of tree t for input x

x : input features (e.g., NO, NO₂, U, V, longitude, latitude)

Each tree is trained on a bootstrap sample and uses a random subset of features at each split. Final prediction is the average of all tree outputs.



RMSE	MAE	R ²
0.00468	0.00314	0.589

