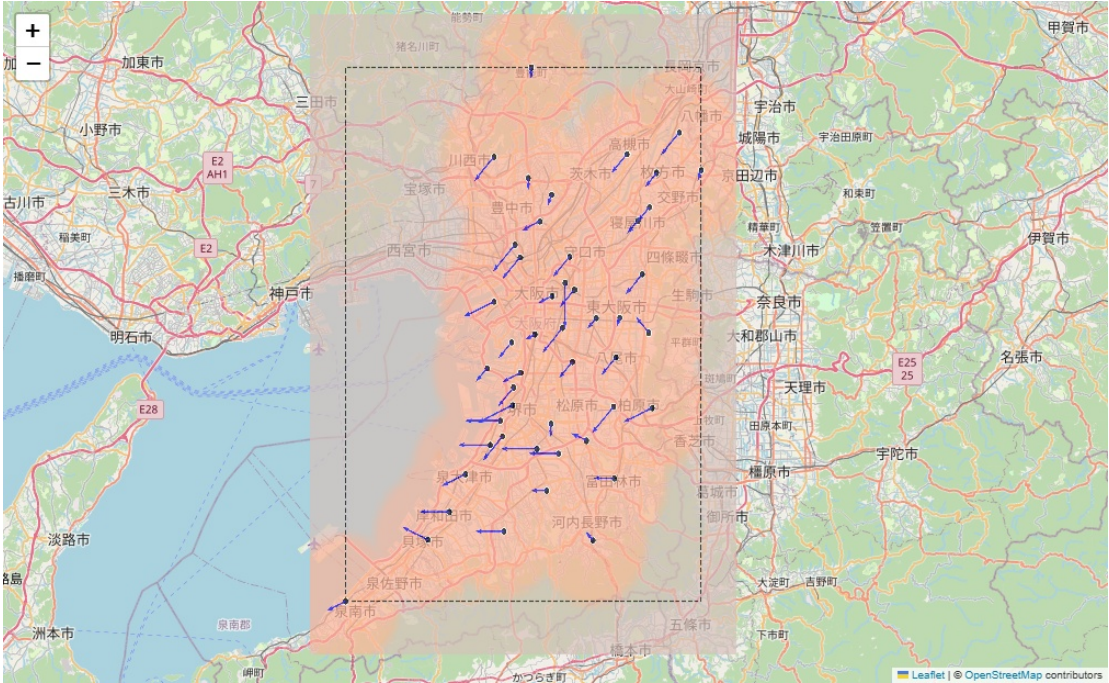


LightGBM Interpolation - 2025/5/12 12H

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

\hat{y} : predicted value (e.g., O_x 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	Notes
0.00211	0.00161	0.749	All stations (2025/5/12 12H)

