

# 2025-10-11 Meeting Notes

## Date

11 Oct 2025

## Participants

- RAIL PG-2 project team
  - Tao Xu a1937511
  - Jinchao Yuan a1936476
  - Zilun Ma a1915860
  - Di Zhu a1919727
  - Xin Wei a1912958
  - Yifan Gu a1909803
  - Tianhua Zhang a1915934
  - Zihan Luo a1916700
  - Sheng Wang a1903948

## Discussion topics

### 1. Share team progress in the first week of Sprint 4

- LIME can be used for explaining feature effects for a single record with high efficiency.
- SHAP can be adapted on a scale from several rows to the whole training data.
- DICE can be applied with the two techniques at the same time.

### 2. XAI technique candidates to be implemented

- LIME, SHAP, DICE.

### 3. Discuss the snapshot 4.1

- Check the content of snapshot 4.1.

### 4. Next steps for the second week of Sprint 4

- In the next week, team members will apply the three XAI techniques above to the models (Group Lasso Transformer, Transformer, DNN, SVM, LightGBM) from sprint 3.
- The features in the training dataset will also be refined based on their weight coming from the XAI result.