## Scenario 1: Predicting Move-in Date

The algorithm was trained on **21,549** observations derived from date of birth (DOB) data in the **Birthdate** dataset to predict **EVENT\_DATE** in the **MoveIn** dataset. A Random Forest model was employed for this task. The prediction accuracy was evaluated with a margin of error of ±30 days. When tested on a separate set of **5,385** observations, the model achieved an accuracy of **83.5**% within the specified error range.

## Scenario 2: Predicting Move-in Premise

The algorithm was trained on 21,549 observations using the SOURCE\_ACCOUNT data from the Birthdate dataset to predict DEST\_ACCOUNT in the Moveln dataset.. A Random Forest model was utilized for this task. The training data included 5 distinct SOURCE\_ACCOUNT values and 5 distinct DEST\_ACCOUNT values. When evaluated on a separate set of 5,385 observations, the model achieved a prediction accuracy of approximately 93,47%.