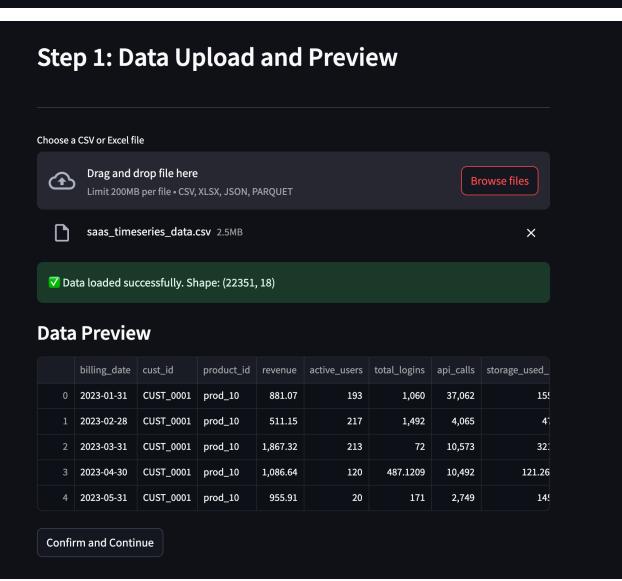
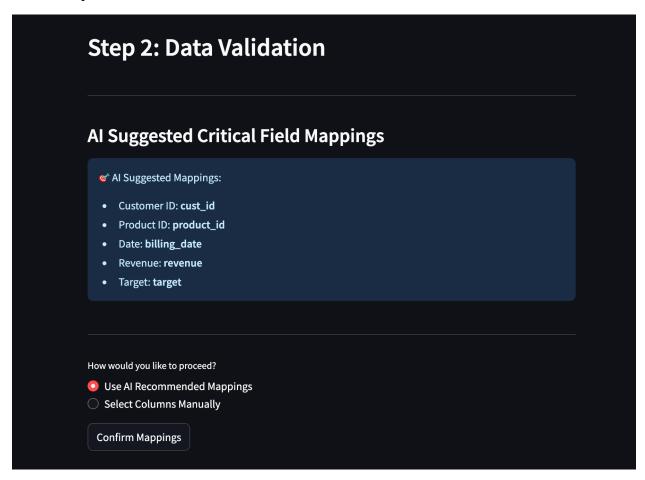
Classification Agent Tutorial

1. Today we will walk you through on how to use StepFunction's Classification Agent. This agent will take your cleaned data and run it through various classification models so you can get your business problem results. Start by uploading your data.

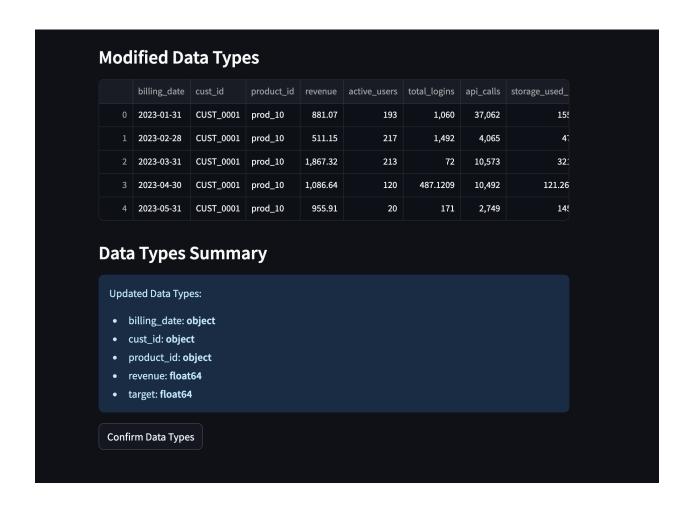




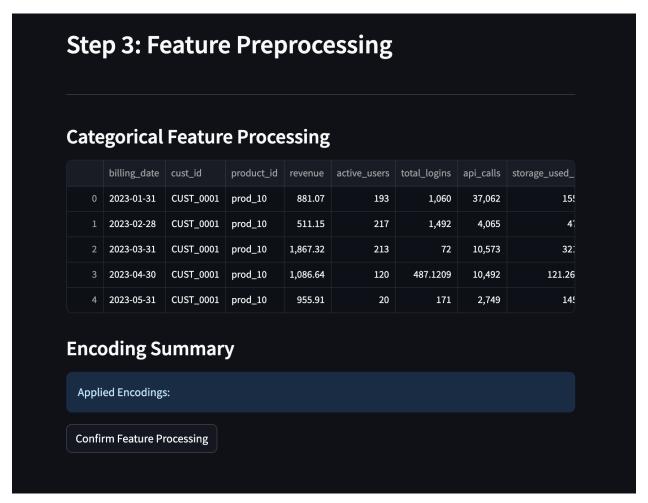
2. Next we will validate your data by aligning it with key mapping fields so that we can align our AI models with the right parameters. The Classification Agent will suggest these mapping fields for you, but if you want to use different ones, you can manually edit them by clicking the manual column selection button. Here, you can manually choose the fields that correspond to the required columns via a dropdown correspond via a dropdown.

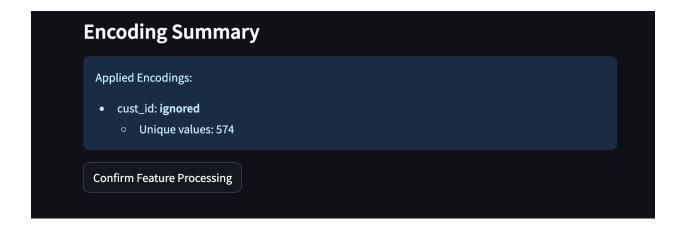


Step 2 continued: After confirming the mappings, we will present you with the datatypes of each of the fields for a final confirmation before proceeding to the next step.

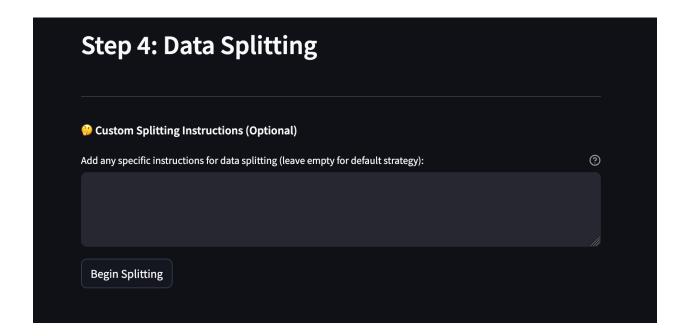


3. Now, the Classification Agent will perform some data quality checks and clean your data so that it can run through classification models. The individual changes will be presented to you once you confirm.





4. Next, your cleaned data will be split into training data and validation data for your model. The Agent will determine the optimal split of your data, but if you want the data split in a custom way, type how you want the data to be split in the text box itself.



Data Split Information

© Al's Splitting Strategy:

For the time series data, the inference set was created using records from the last month, while the validation set included records from the month prior to the last month, covering a total of three months for validation. The training set consisted of all records prior to the validation period.

Training Period:

• Start: 2023-01-31 00:00:00

• End: 2024-09-30 00:00:00

Validation Period:

• Start: 2024-10-31 00:00:00

• End: 2024-12-31 00:00:00

Inference Period:

• Month: 2025-01

Sample Counts:

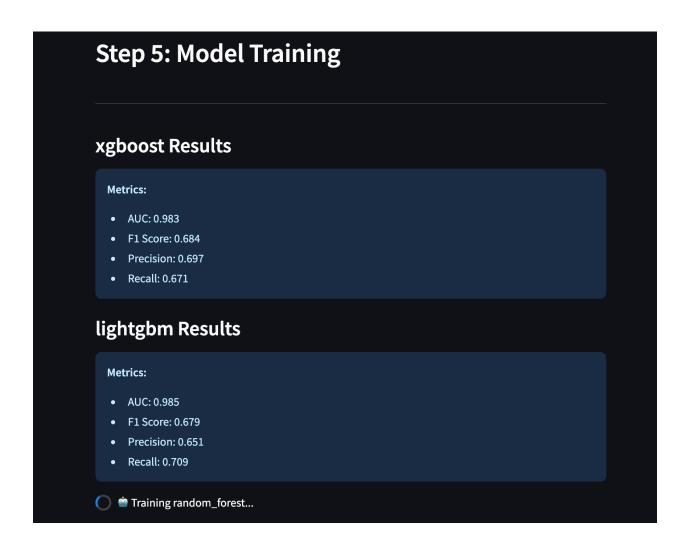
• Training: 18000

• Validation: 3230

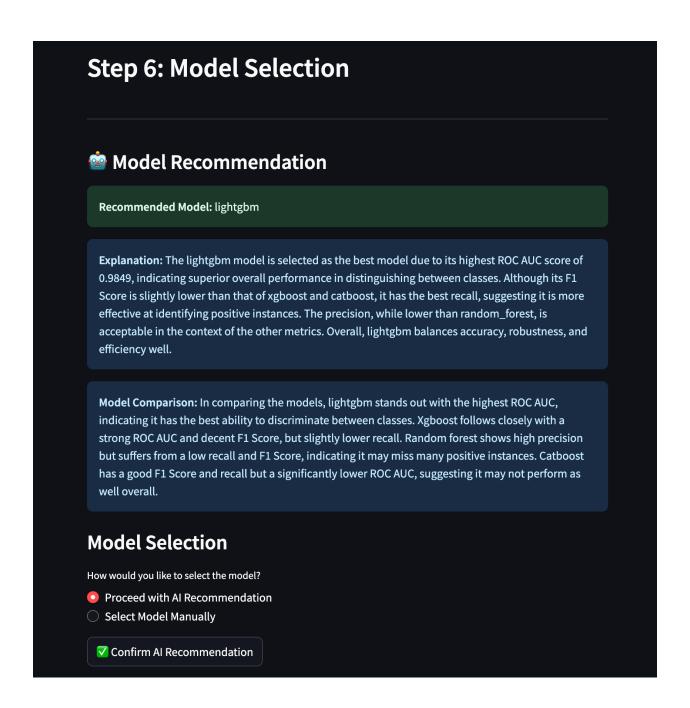
• Inference: 1121

Confirm Data Split

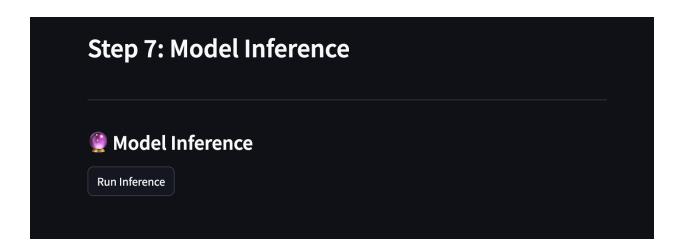
5. Upon confirming the data split in the previous step, multiple classification models will be trained using your data. As they are trained, you will be provided with model health stats that will be used to find the best model for your business task.



6. After training, the Classification Agent will determine the best model to use to run inference on your data. If you wish to override it and use a different model, you can select the model manually via the button below. Otherwise, you can confirm the Agent's recommendation and move onto the next step.



7. The Agent will now run inference on the best model and provide you with a summary of the results.



Inference Results Summary:

- Total Records: 1121
- Positive Predictions: 12 (1.1%)
- Average Probability: 0.015

Sample Predictions

| | billing_date | cust_id | product_id | revenue | active_users | total_logins | api_calls | storag |
|-----|---------------------|-----------|------------|----------|--------------|--------------|-----------|--------|
| 96 | 2025-01-31 00:00:00 | CUST_0005 | prod_04 | 403.13 | 21 | 645 | 2,203 | |
| 133 | 2025-01-31 00:00:00 | CUST_0006 | prod_04 | 1,356.81 | 41 | 1,050 | 17,057 | |
| 158 | 2025-01-31 00:00:00 | CUST_0007 | prod_03 | 1,401.2 | 20 | 2,378 | 16,411 | |
| 212 | 2025-01-31 00:00:00 | CUST_0007 | prod_09 | 1,651.34 | 28 | 1,597 | 16,281 | |
| 257 | 2025-01-31 00:00:00 | CUST_0009 | prod_09 | 1,193.28 | 81 | 1,463 | 15,670 | |

▼ Model Inference Complete:

- Processed Records: 1121
- Positive Predictions: 12 (1.1%)

8. As the last step, download your results, and you have successfully run classification models on your data.

