Modeling results & insights

Relative importance of features

Feature Importances

Feature	Importance
unit_price	0.285
temperature	0.168
day_of_hour	0.110
quantity	0.078
day_of_week	0.052
day_of_month	0.052
category_baked goods	0.015
category_personal care	0.015
category_frozen	0.015

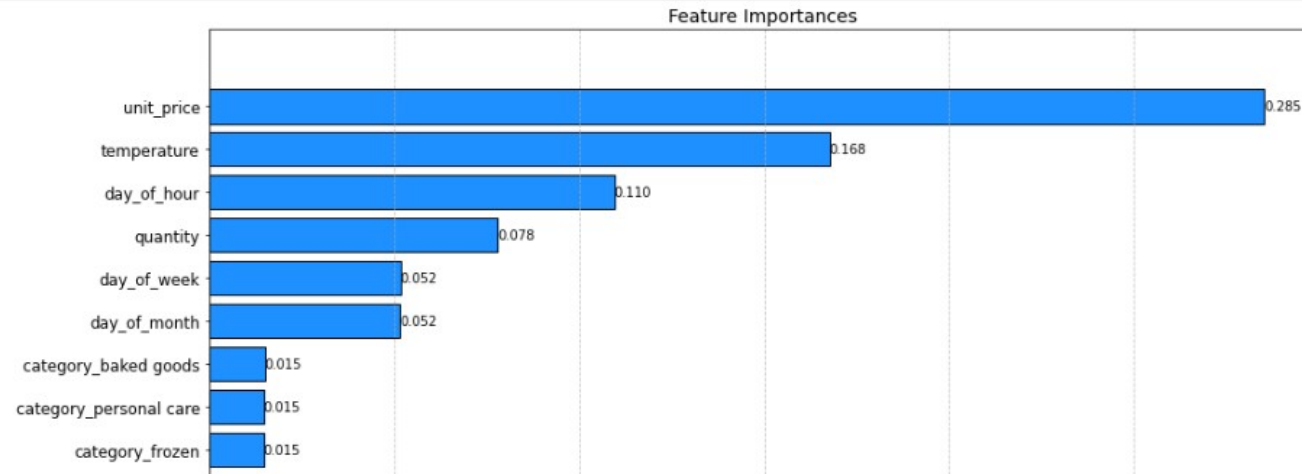### Price is important
- Unit price was the most important feature in the model when predicting estimated stock percentage.
- Item category did not tell us much about stock levels.

More IoT data
- Temperature was an important feature in the model. With more IoT data on storage temperature across a longer period, the accuracy of the model is likely to improve.

Productionization
- In order to test this model for production, we need more data across a wider set of features.