

CSE523 Machine Learning Weekly Project Report Date: 04-03-2023

Project title: Big Mart Sales Prediction

Group 10

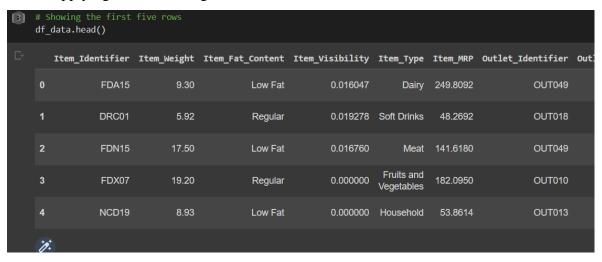
Name	Enrolment no.
Meet Patel	AU2040010
Dev Patel	AU2040056
Kush Patel	AU2040137
Vatsal Shah	AU2040019

1. Task performed this week

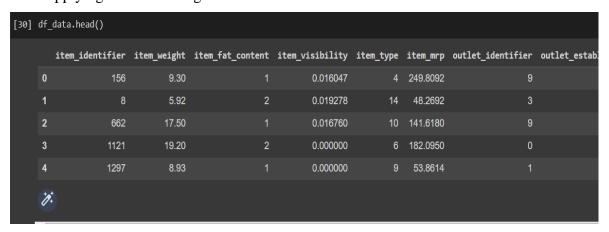
- Performed label encoding on the dataset to convert the categorical features to numerical features.
- Splitting the features and target by removing the "item_outlet_sales" feature from the dataset since "item_outlet_sales" is the target for our model.
- Splitting the dataset into training and testing set.

2. Outcomes of task performed

Before applying label encoding:



• After applying label encoding:



• Splitting the dataset into training and testing sets:

```
[35] X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.2, random_state=2)

print(X.shape, X_train.shape, X_test.shape)

(8523, 11) (6818, 11) (1705, 11)
```

- We split the dataset into 80% training set and 20% testing set.
- The dimensions are:
 - Actual dataset: (8523,11)

- o Training dataset: (6818, 11)
- o Test set: (1705,11)

3. Tasks to be performed in the upcoming week

• We will implement the linear regression and XGBoost regressor.