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| Before Datatype Conversion | After Datatype conversion and column pruning |
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| Exploratory Data Analysis on Factor Variables Before Clean-up and Split | |
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| Exploratory Data Analysis on Numerical Variables Before Clean-up and Split | |
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| Missing values in Factor Variables | Missing values in Numerical Variables |
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| Decision Tree |
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| Exploratory Data Analysis on Factor Variables Before Clean-up and Split | |
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| Exploratory Data Analysis on Numerical Variables Before Clean-up and Split | |
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| Missing values in Factor Variables | Missing values in Numerical Variables |
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| Model: Item\_Outlet\_Sales ~ Outlet\_Identifier + Item\_MRP |
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| Model: log(Item\_Outlet\_Sales) ~ Outlet\_Identifier + Item\_MRP |
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| Prediction before exponentiation | Prediction after exponentiation |
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Approach-2:

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| Missing Values Validation: With missing values | Missing Values filled with widest range |
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| Viewing the filled missing values using the jitter plot based on Product Type, because product is associated with weight | |
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| Observing Weight reported by each stores: | |
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| Observing users behaviour in purchasing product based on weight | |
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| Missing values of Weight treated with mean weight | Observing the weight wrt product after treating |
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| Observing the missing values in Mart Size | | |
| Size based on Sales | **Size based on Mart Type** | **Size based on location** |
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| After treating the missed values in Mart Size | Visualizing Product Type based on Visibility |
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| The following density plot shows large number of zero visibilities |
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