



Demand prediction model.



```
print('MAE: {:.2f}'.format(mae))  
print('RMSE: {:.2f}'.format(rmse))
```

6. Prediction: Use the trained Random Forest model to predict future demand for each product and storage facility. For example:

python

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```
# Use the trained model to make predictions on new data  
new_data = pd.read_csv('new_data.csv')  
new_data['Demand_Predicted'] = rf_model.predict(new_data[features])
```

7. Facility Assignment: Based on the predicted demand, assign the appropriate facility category in which that need to be stored. Use appropriate binning based on the given data for the number of products in each facility. For example:

python

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```
# Assign the appropriate facility category based on the predicted demand  
new_data['Facility_Assigned'] = pd.cut(new_data['
```



explain the feature engineering which is generally performed on datasets for inventory forecasting



Feature engineering is an important step in building an accurate inventory forecasting model. It involves creating new features from the existing data to help improve the model's



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