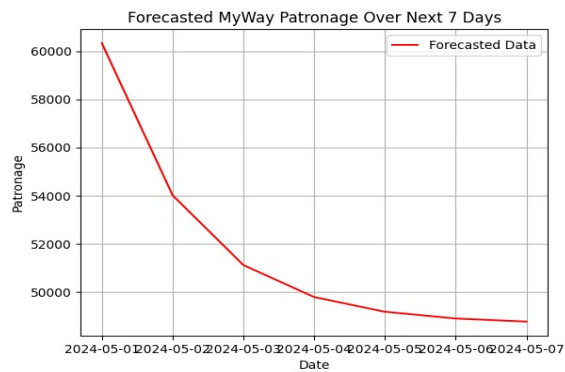
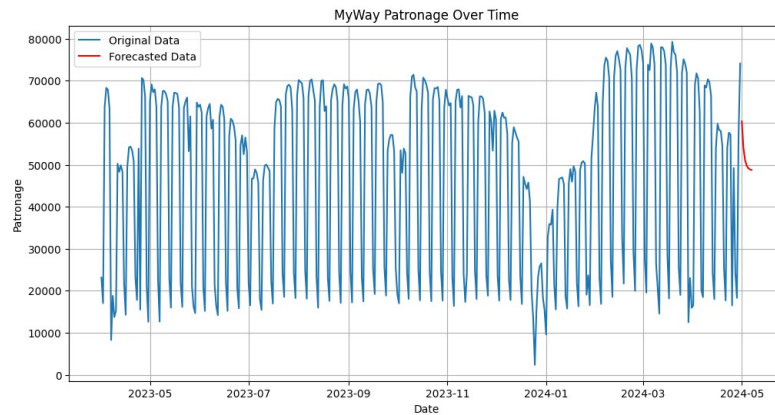


Prediction of Myway tickets for next seven days

Prediction using ARIMA(Autoregressive integrated moving average):

```
Forecasted patronage for the next 7 days:  
2024-05-01    60334.709928  
2024-05-02    54011.961282  
2024-05-03    51111.764585  
2024-05-04    49781.466516  
2024-05-05    49171.268937  
2024-05-06    48891.375062  
2024-05-07    48762.991189  
Freq: D, Name: predicted_mean, dtype: float64
```



Mean Absolute Error (MAE): 17139.560554714288
Mean Squared Error (MSE): 401809161.74173266
Root Mean Squared Error (RMSE): 20045.178017212336
Mean Absolute Percentage Error (MAPE): 65.69711698745222

The LSTM(Long short term memory) is less accurate than ARIMA since Mean absolute percentage error (mape) is slightly more on LSTM

Mean Absolute Error (MAE): 24498.535714285714
Mean Squared Error (MSE): 606279622.0436052
Root Mean Squared Error (RMSE): 24622.746029710113
Mean Absolute Percentage Error (MAPE): 65.22058870981297