STEP 1: STATIONARITY

ADF p-value: 0.0007
STATIONARY

STEP 2: SEASONAL

Strength: 23.5%
STRONG

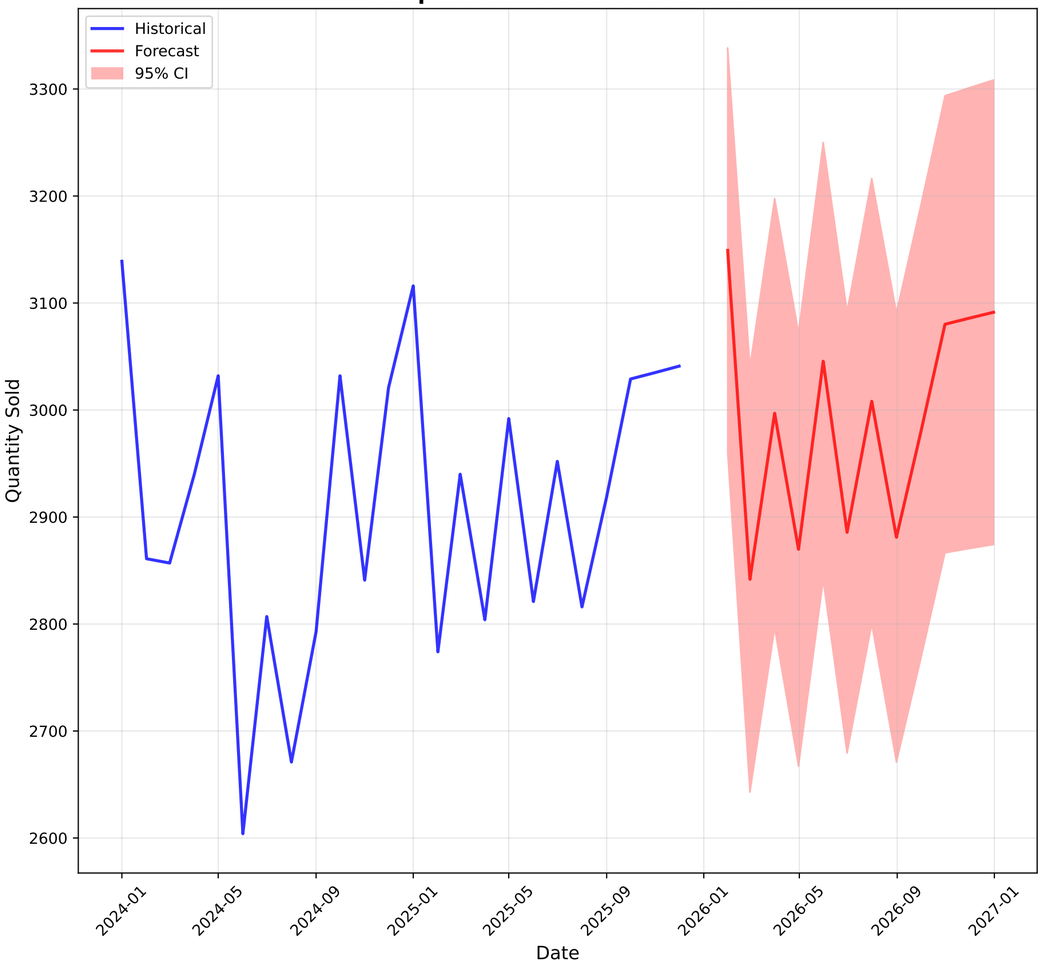
STEP 3: MODEL

ARIMA(0, 1, 2)
AIC: 1603.6

STEP 4: EVALUATION

MAPE: 5.7%
GOOD

STEP 5: FORECAST GENERATION
Complete ARIMA Process Result



COMPLETE ARIMA PROCESS SUMMARY

```
Process Overview:
1. STATIONARITY TESTING
   • ADF Test: p-value = 0.0007
   • Result: STATIONARY
   • Implication: Ready for ARIMA

2. SEASONAL DECOMPOSITION
   • Seasonal Strength: 23.5% if 'seasonal_strength' in locals() else 'N/A'
   • Pattern: STRONG
   • Implication: Use SARIMA

3. MODEL SELECTION
   • Best Model: ARIMA(0, 1, 2) x SARIMA(1, 0, 0, 12)
   • AIC: 1603.6
   • Parameters: 16 total

4. MODEL EVALUATION
   • MAPE: 5.7%
   • Performance: GOOD
   • Quality: High

5. FORECAST GENERATION
   • Horizon: 12 months
   • Mean Forecast: 2993 units/month
   • Range: 2842 to 3149 units
   • Confidence: 95% intervals provided

CONCLUSION:
The ARIMA model successfully captures the time series patterns and provides reliable forecasts for inventory planning and business decision-making.
```