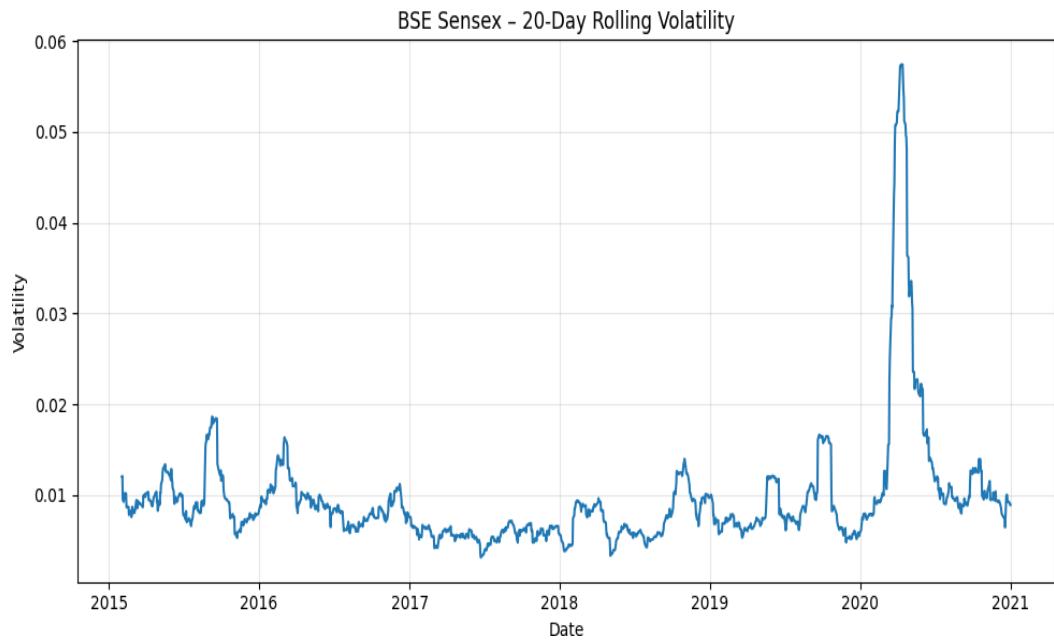


**Figure 1.** Model Output Visualization

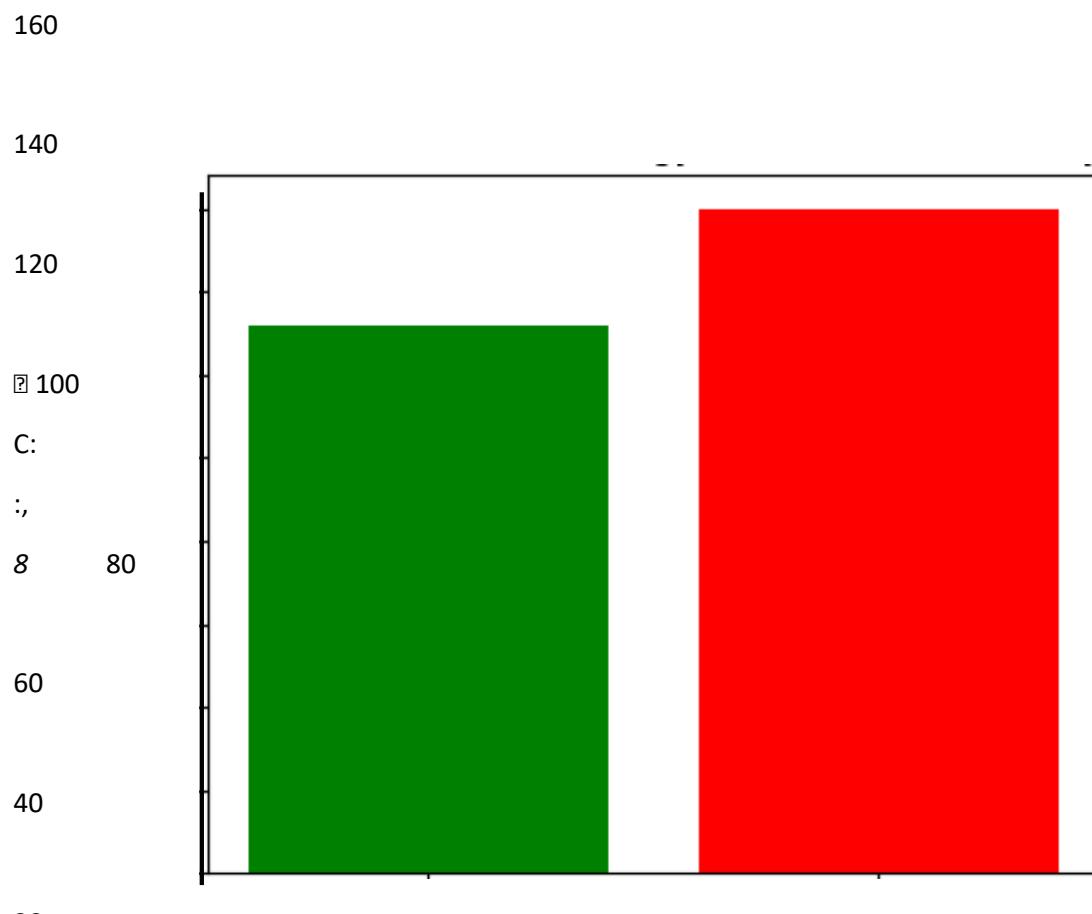
This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



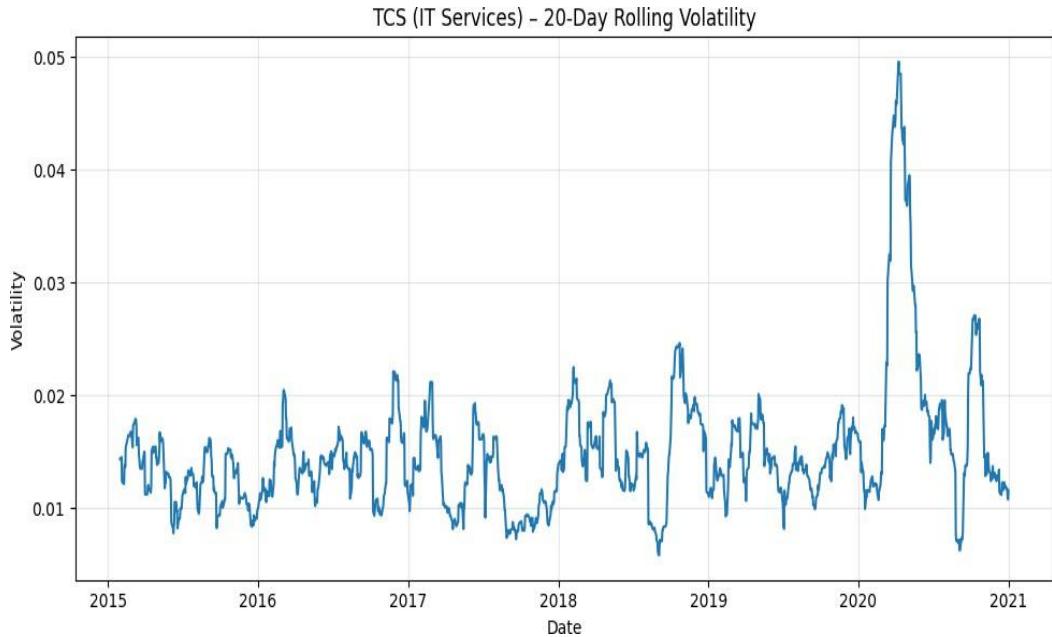
**Figure 2.** Model Output Visualization

This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

### Reliance Industries (Energy) - Prediction Accuracy

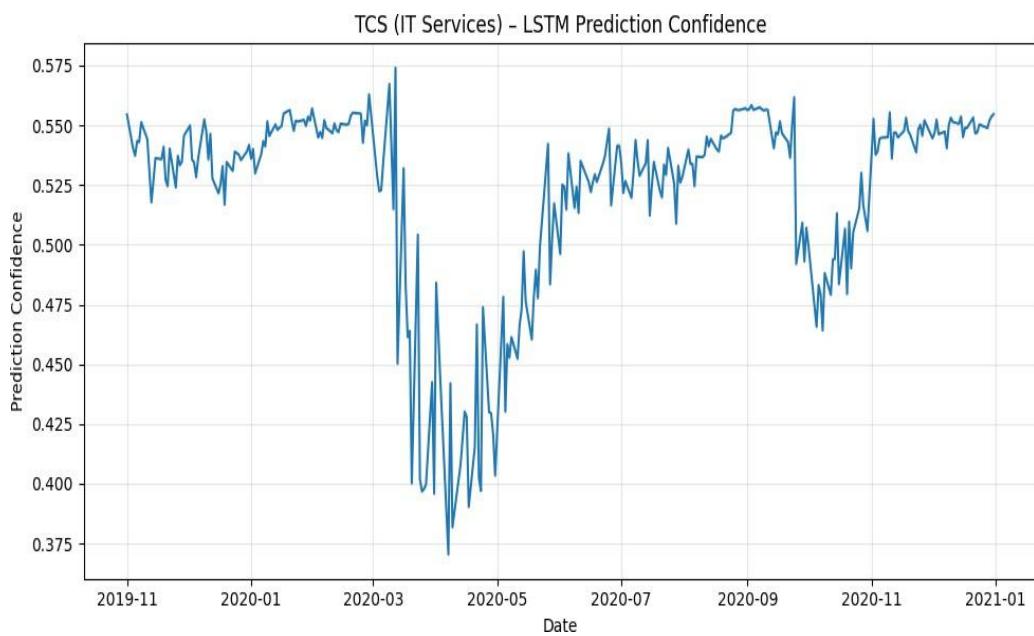


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

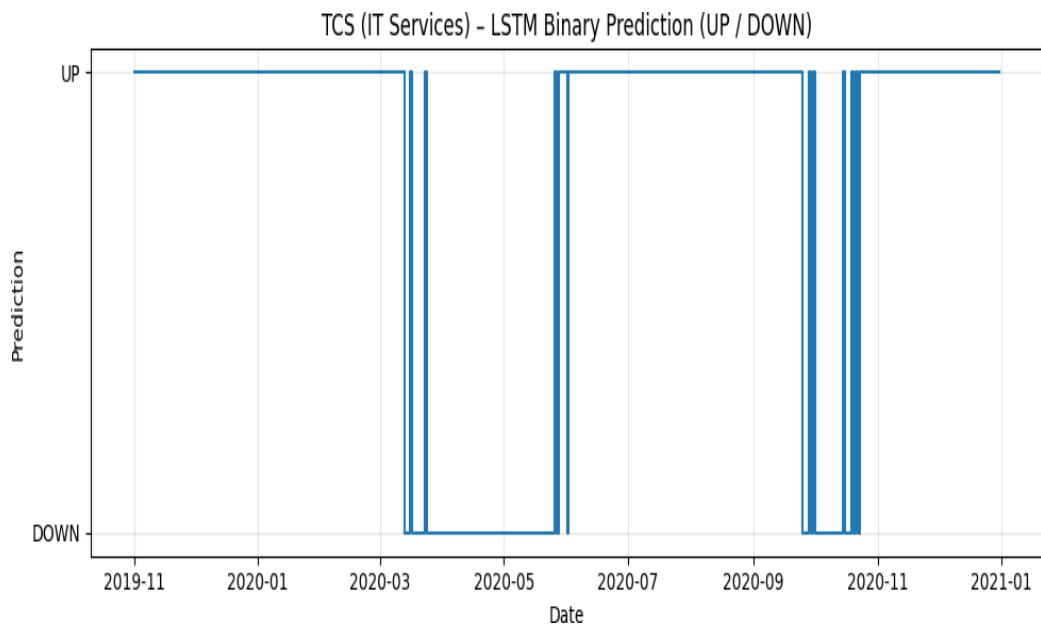


**Figure 4.** Model Output Visualization

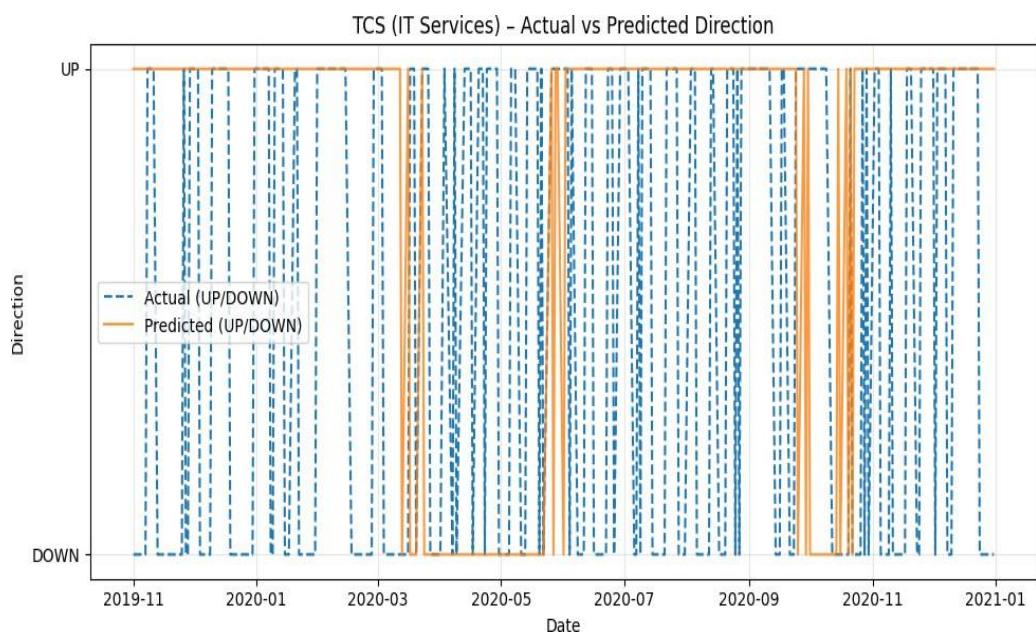
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



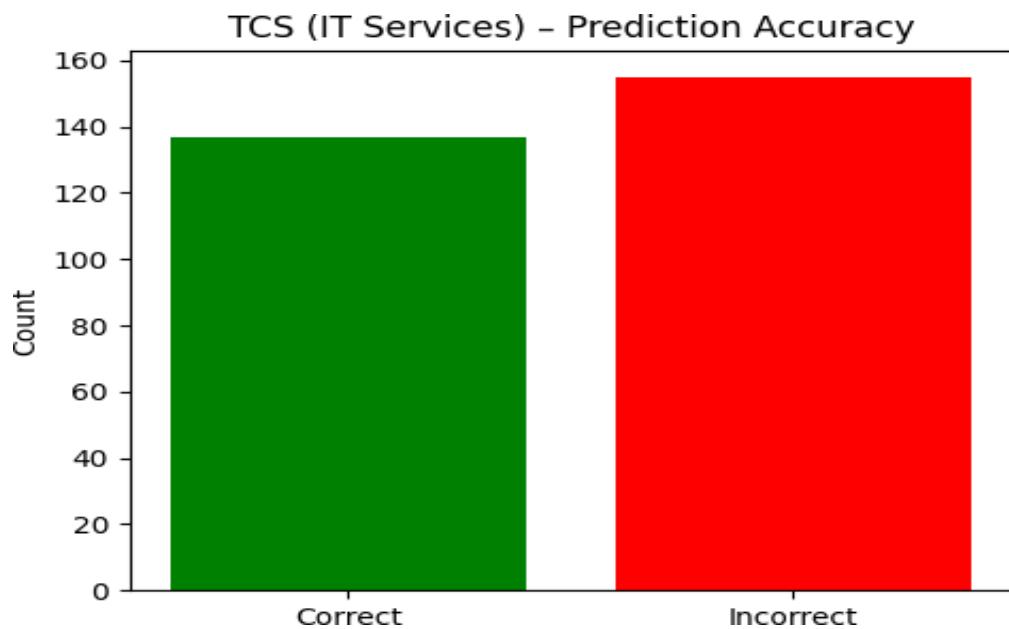
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 6. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

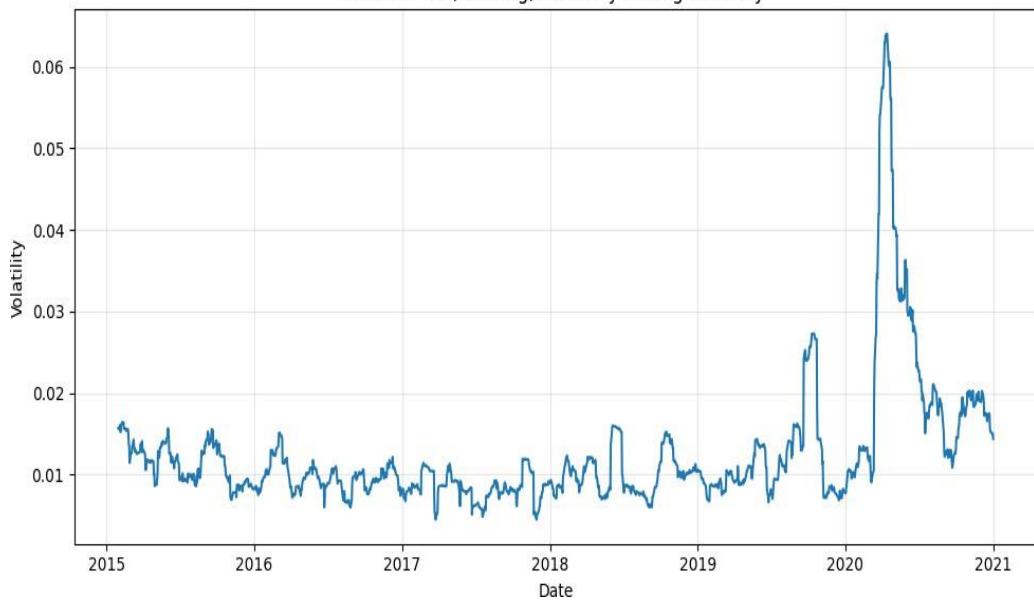


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

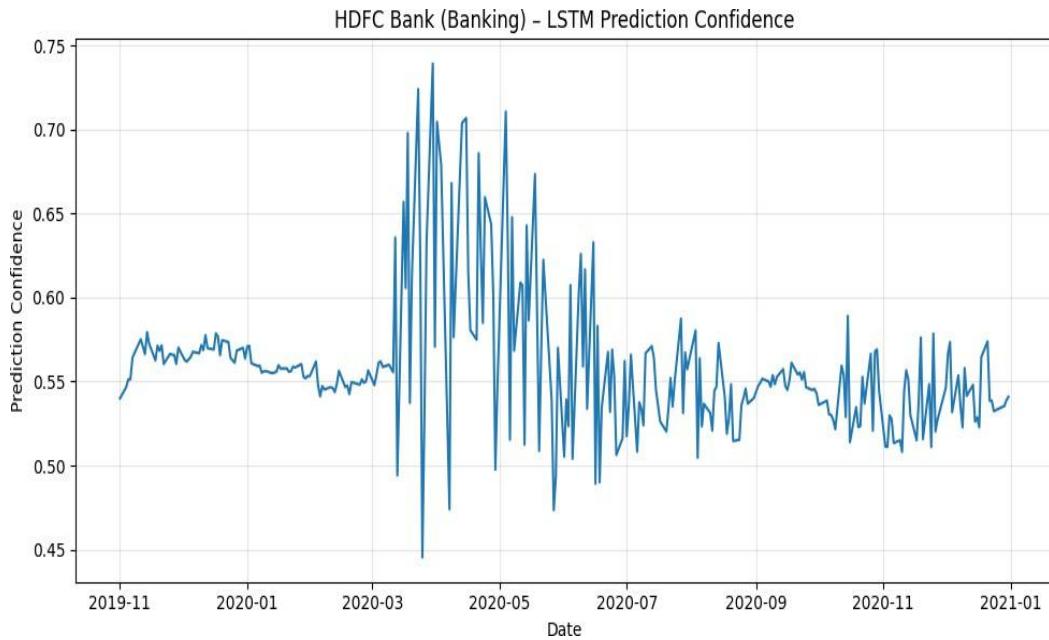


- **Figure 8.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

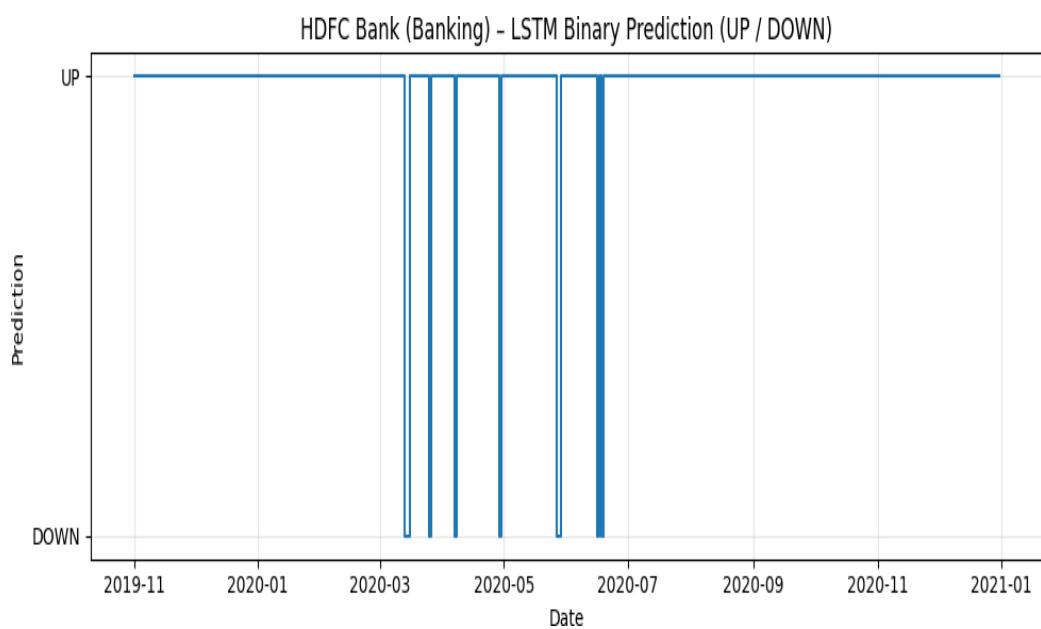
HDFC Bank (Banking) - 20-Day Rolling Volatility



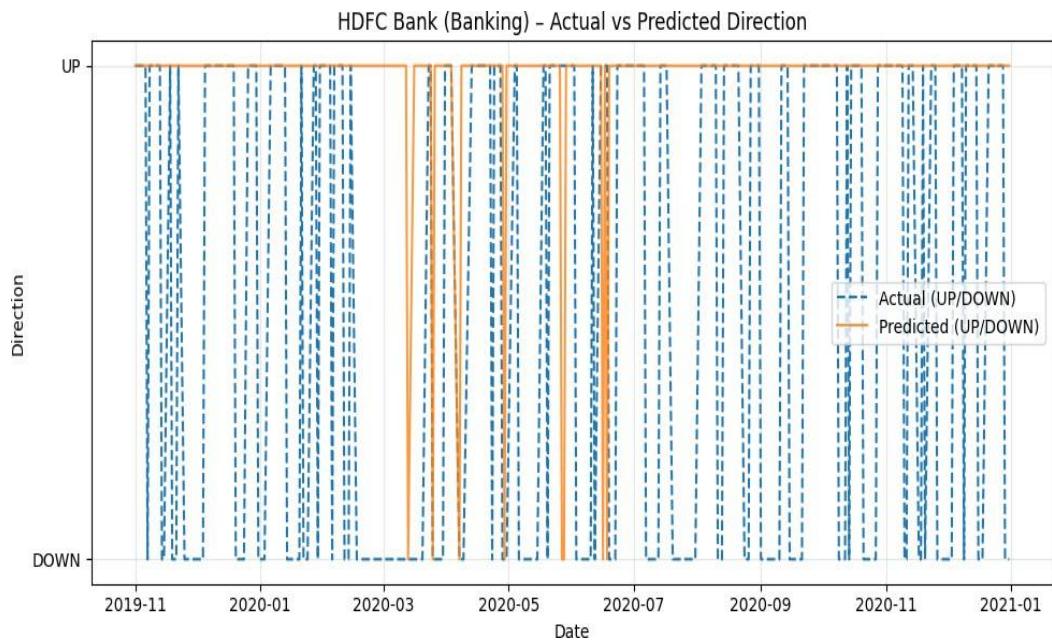
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



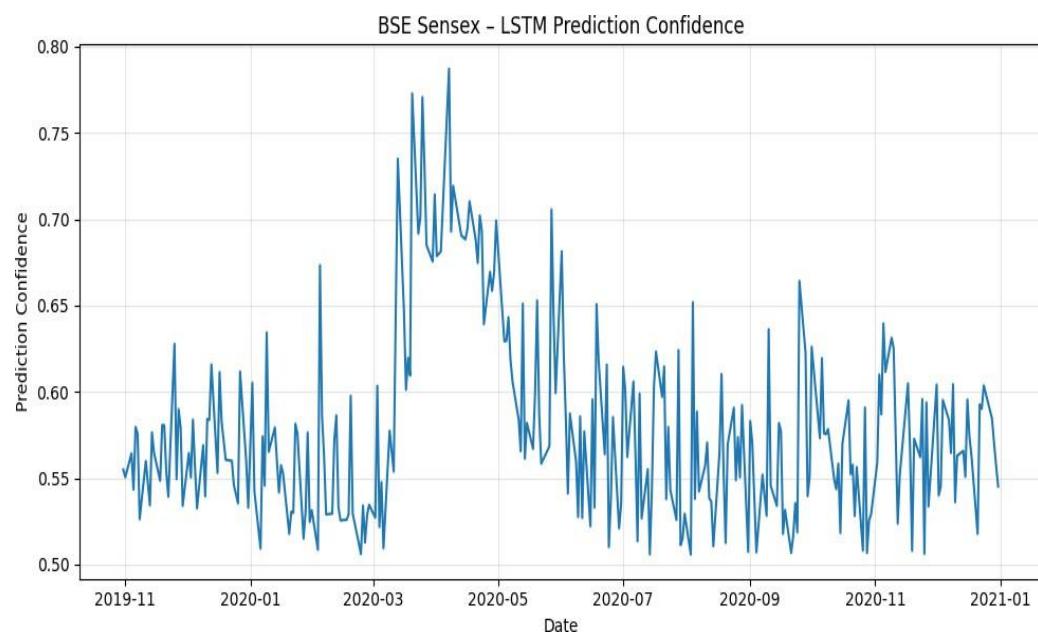
- **Figure 10.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



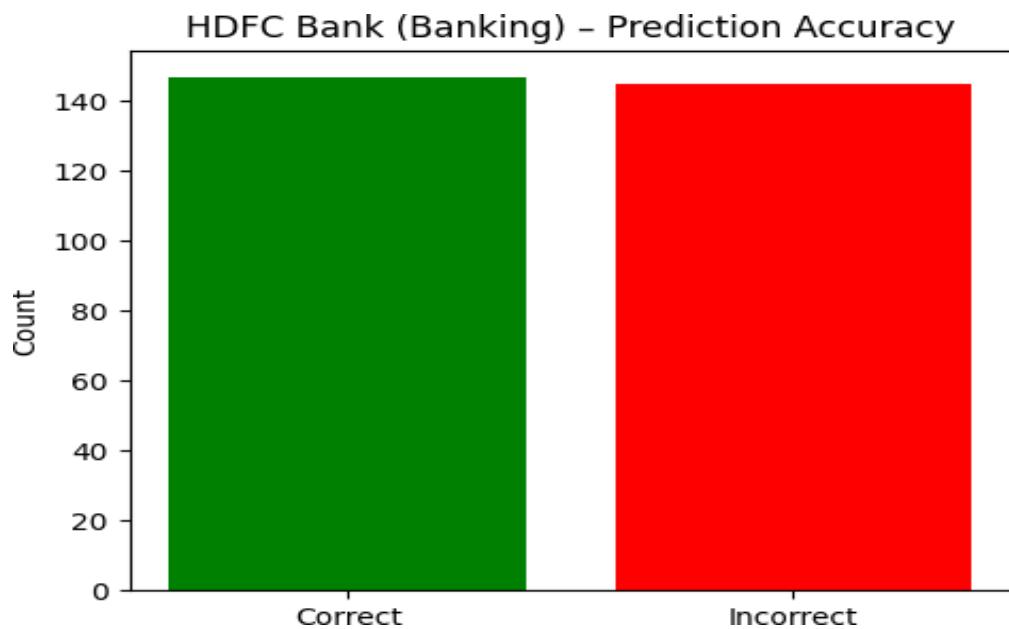
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



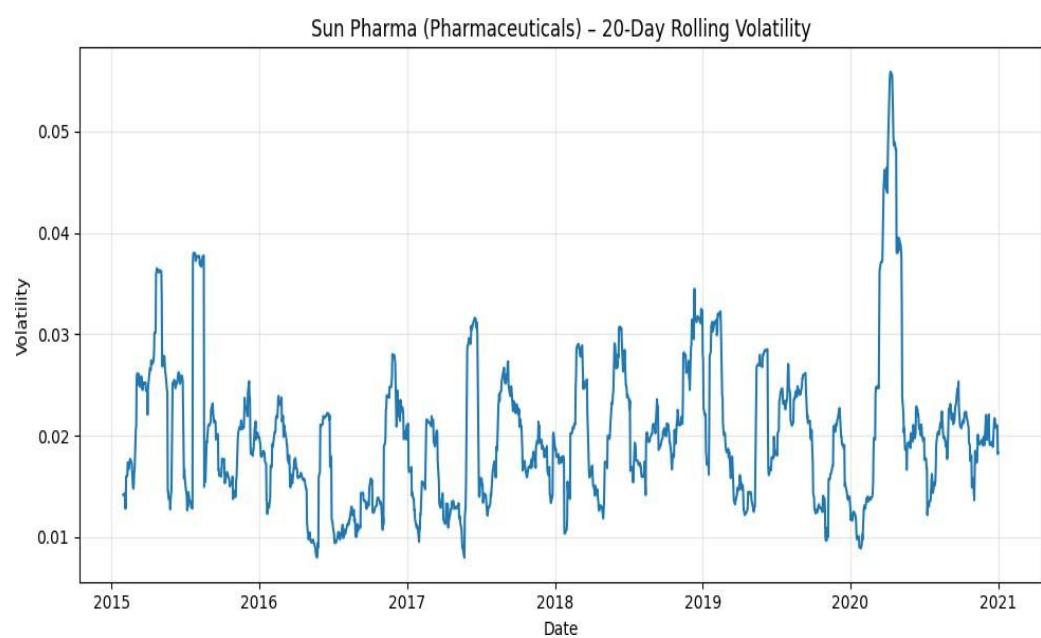
- **Figure 12.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



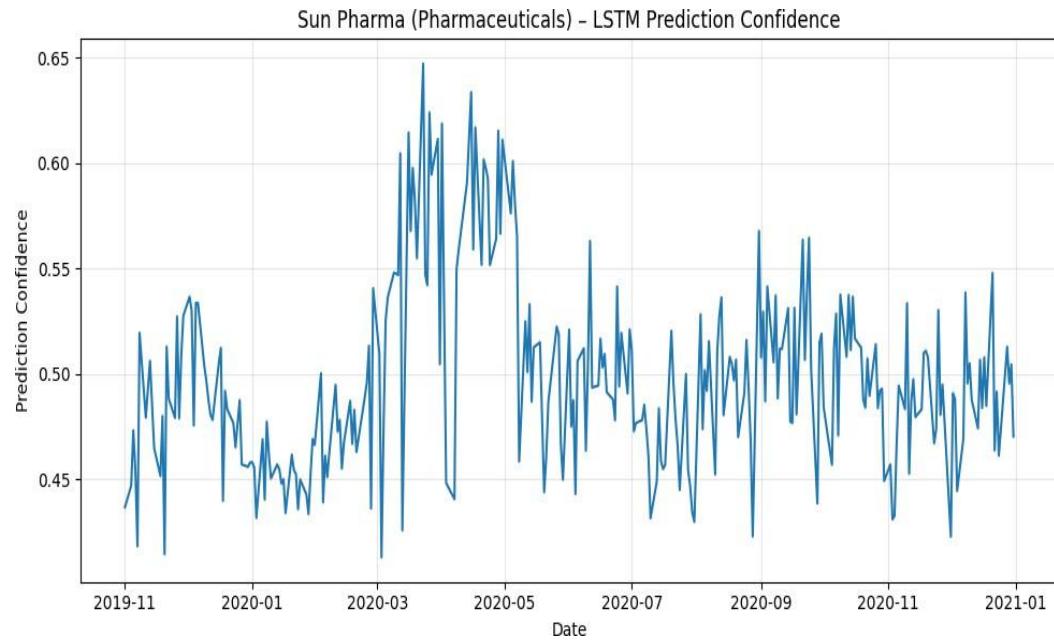
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



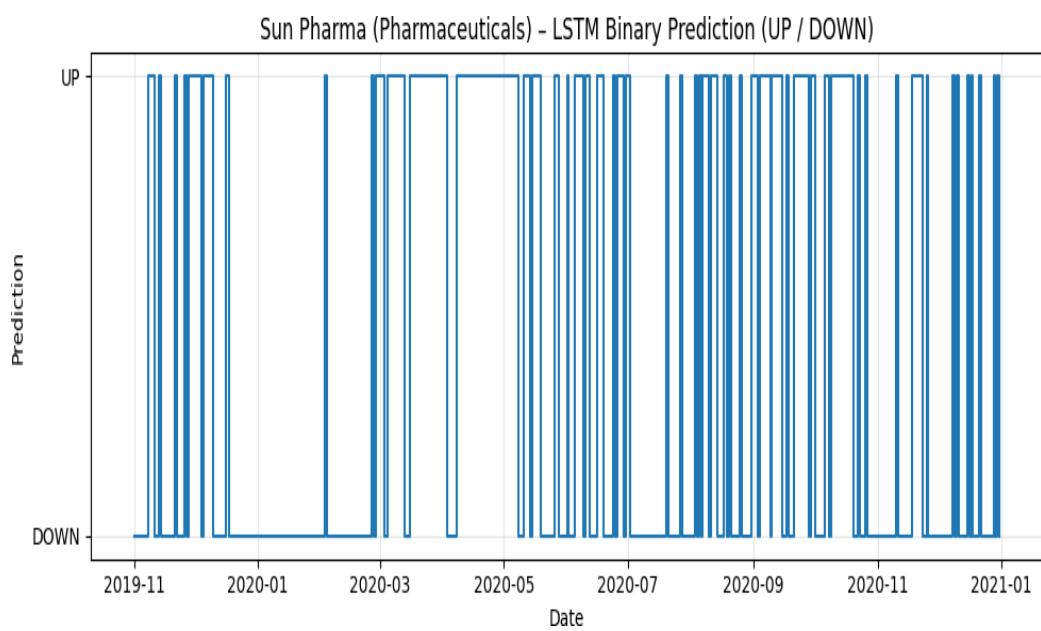
- **Figure 14.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



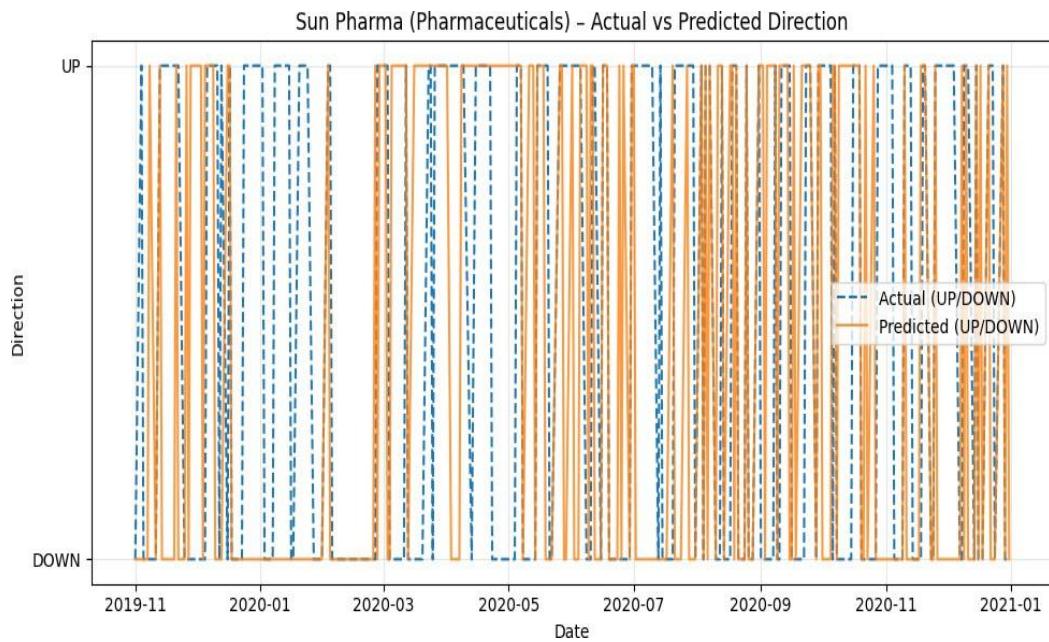
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



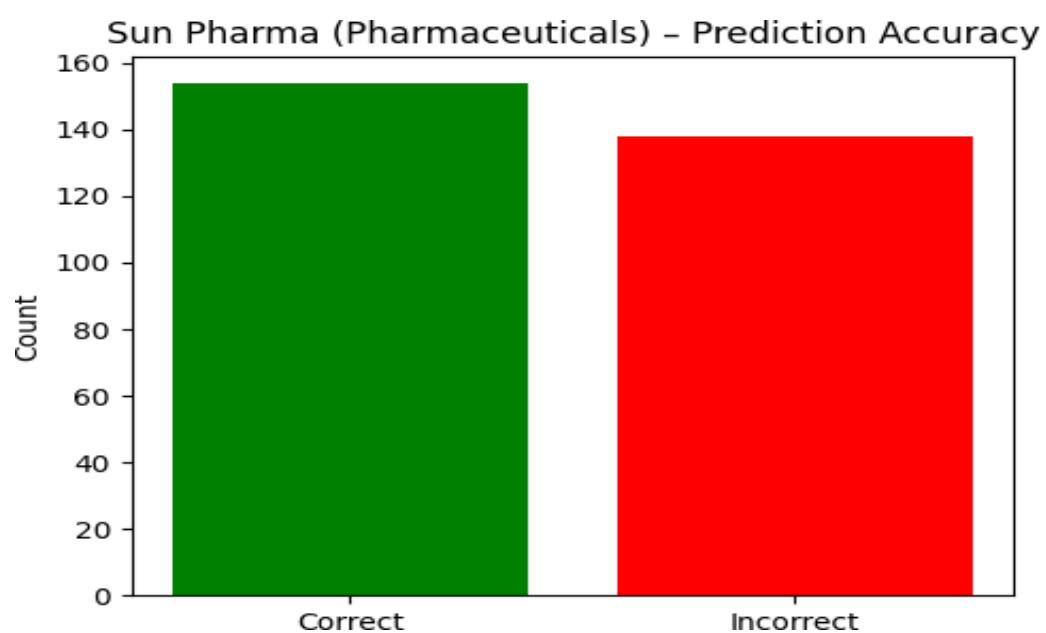
- **Figure 16.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



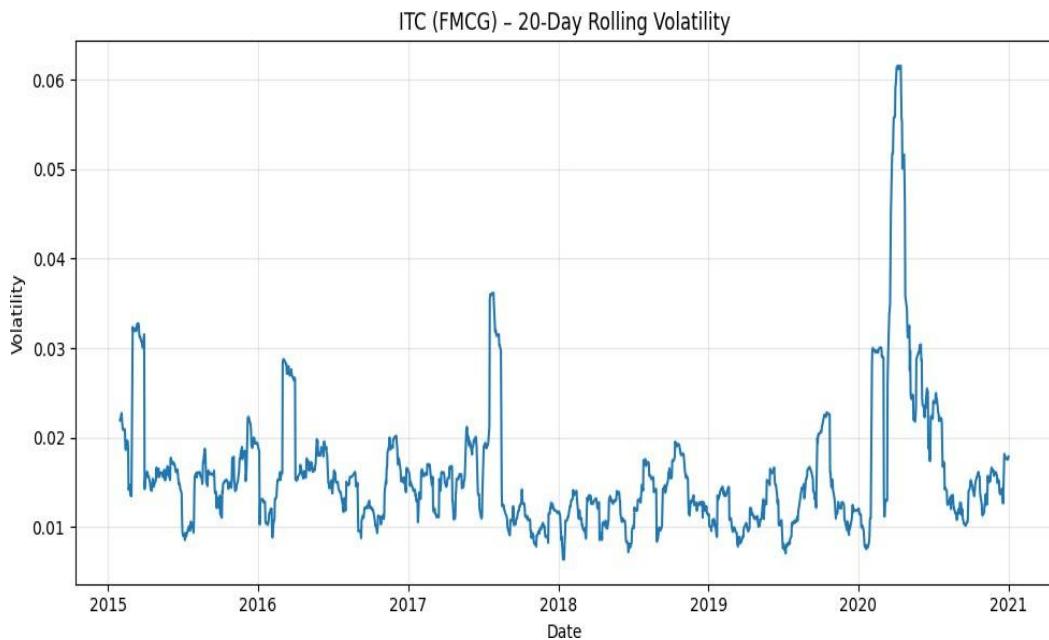
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



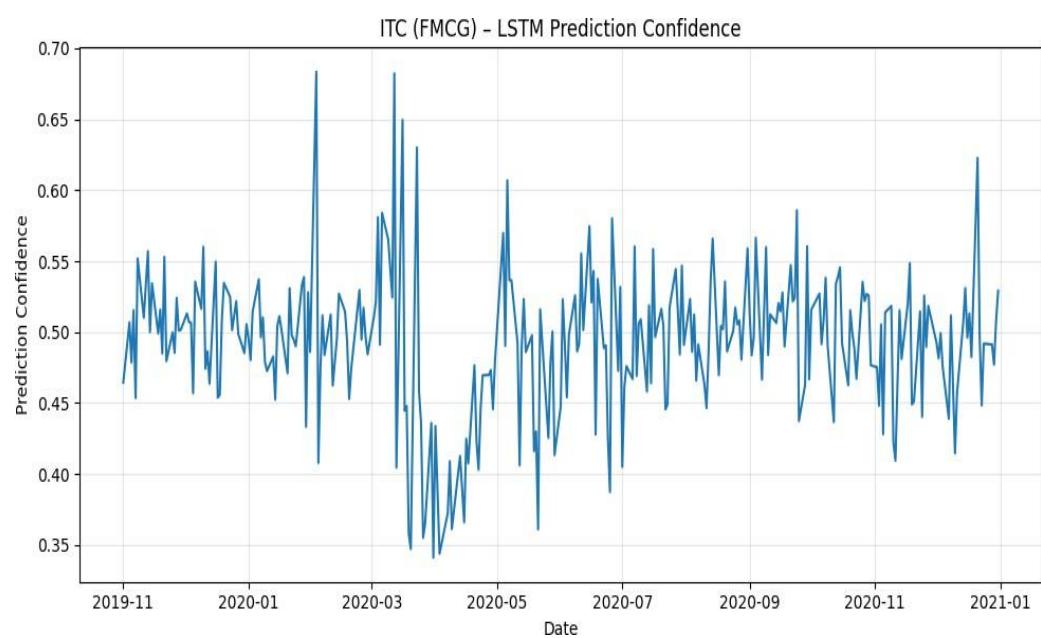
- **Figure 18.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



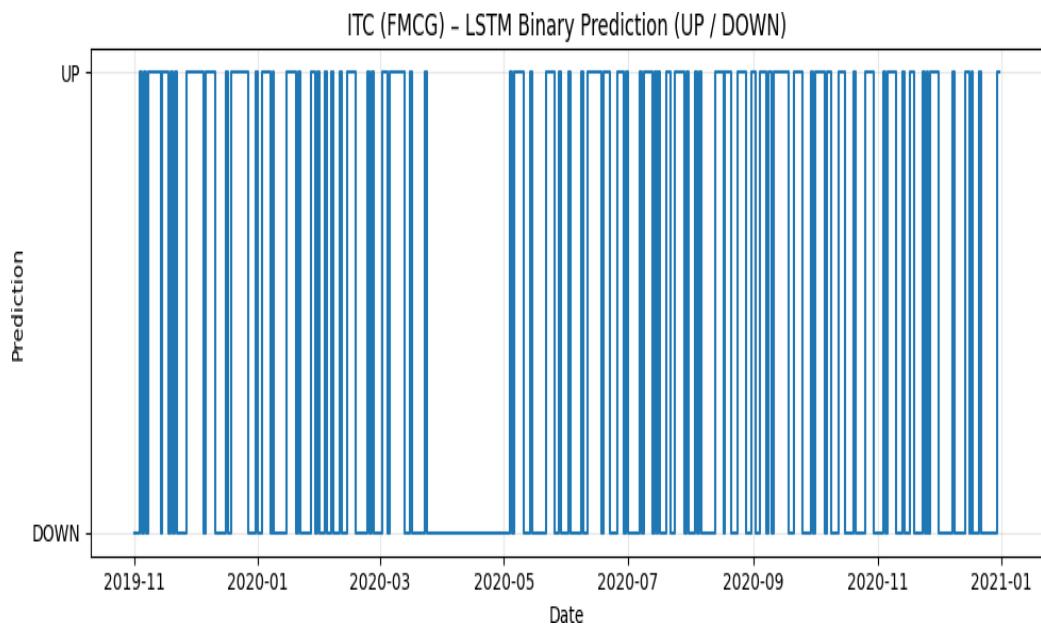
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 20.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

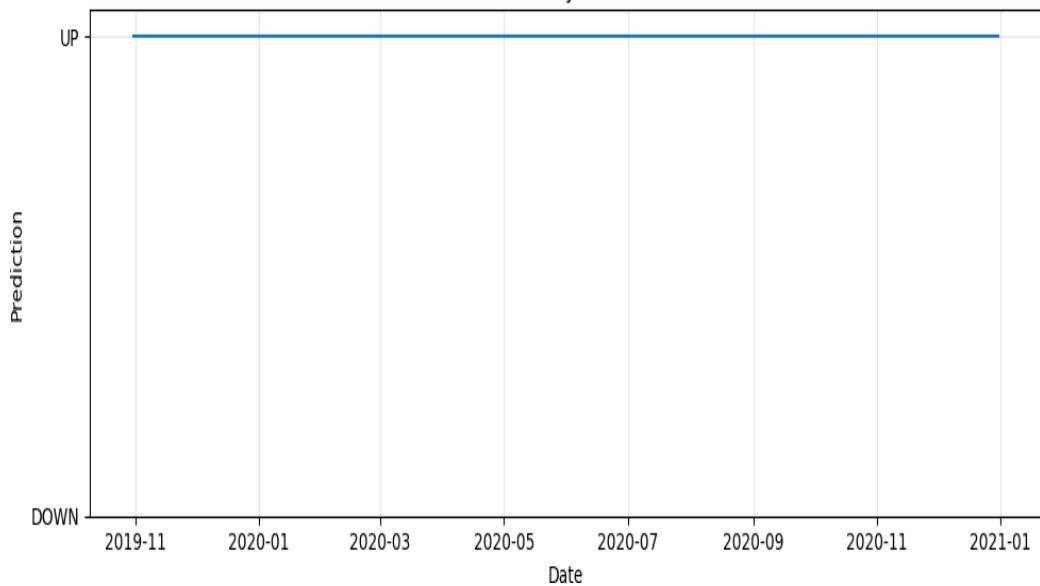


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

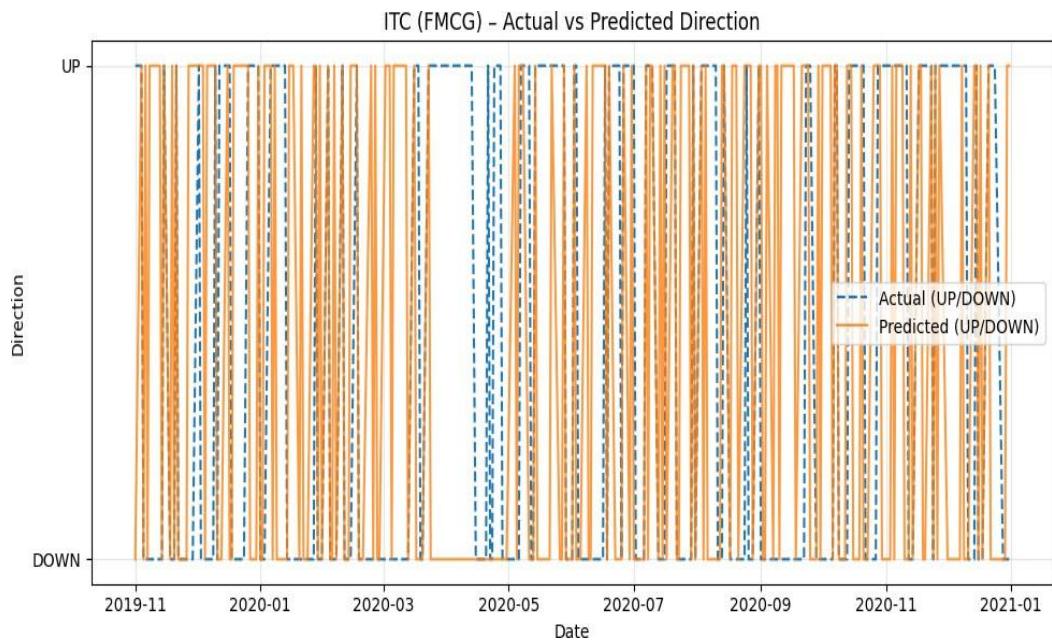


- **Figure 22.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

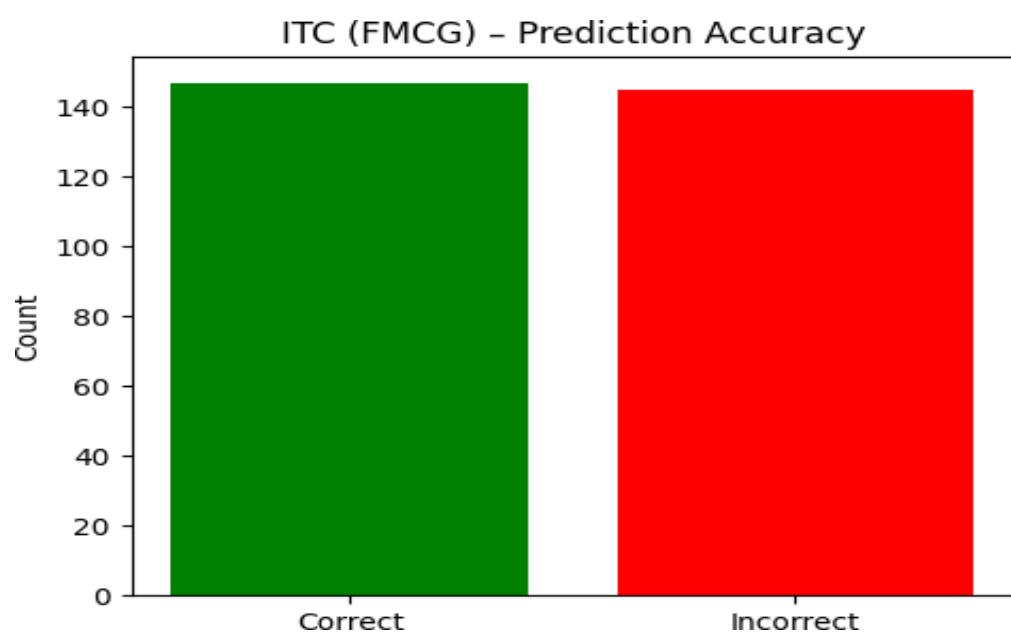
BSE Sensex - LSTM Binary Prediction (UP / DOWN)



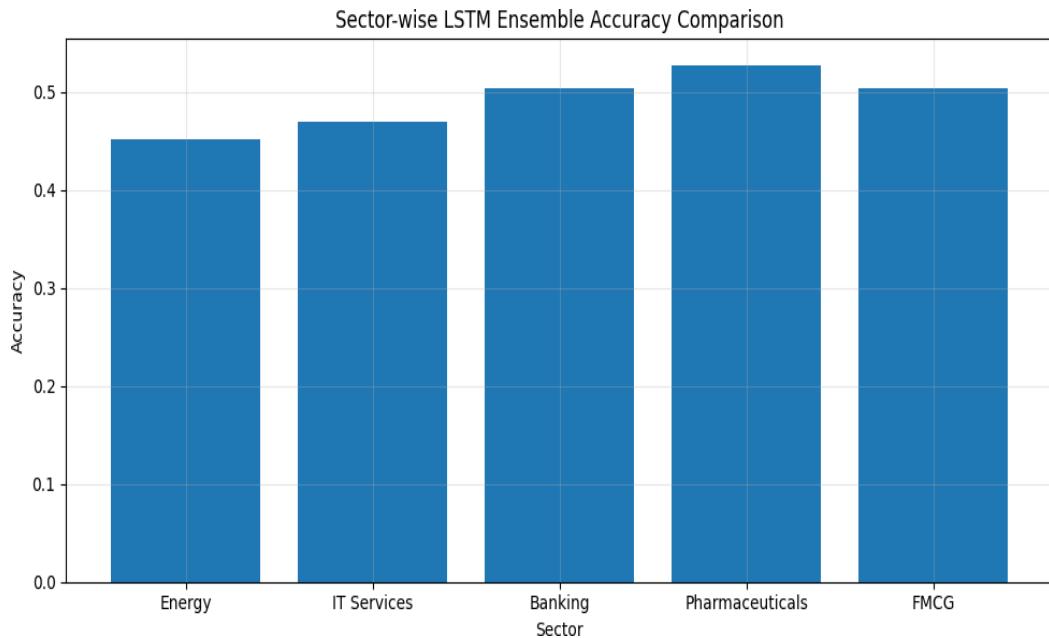
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 24.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

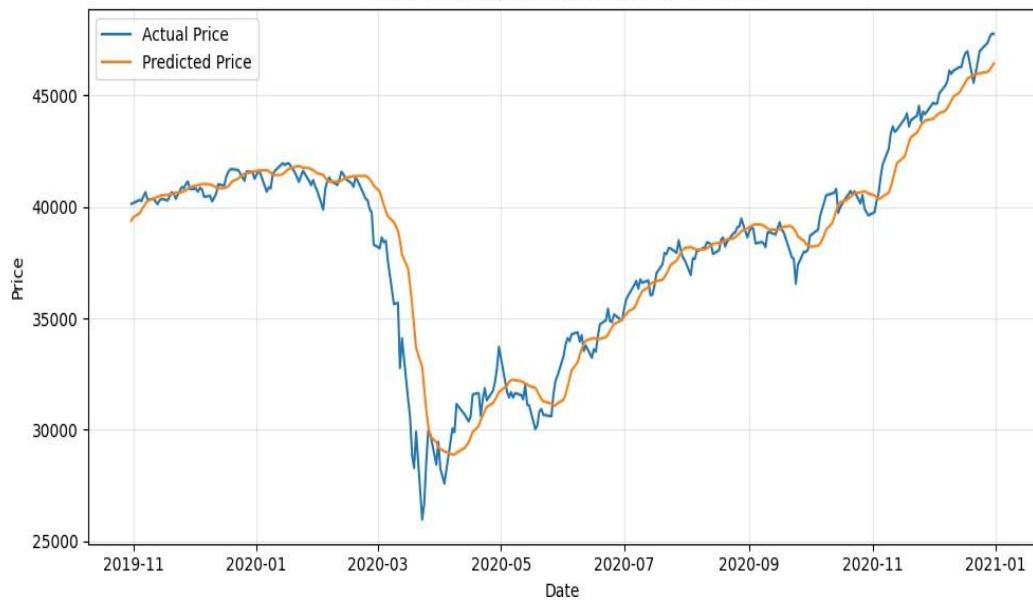


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

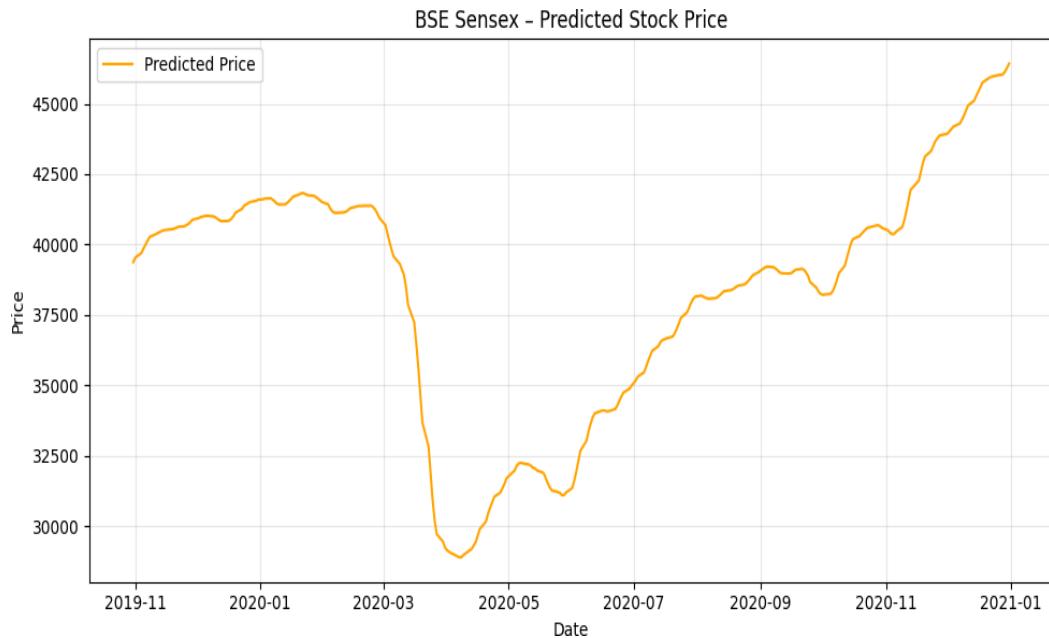


- **Figure 26.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

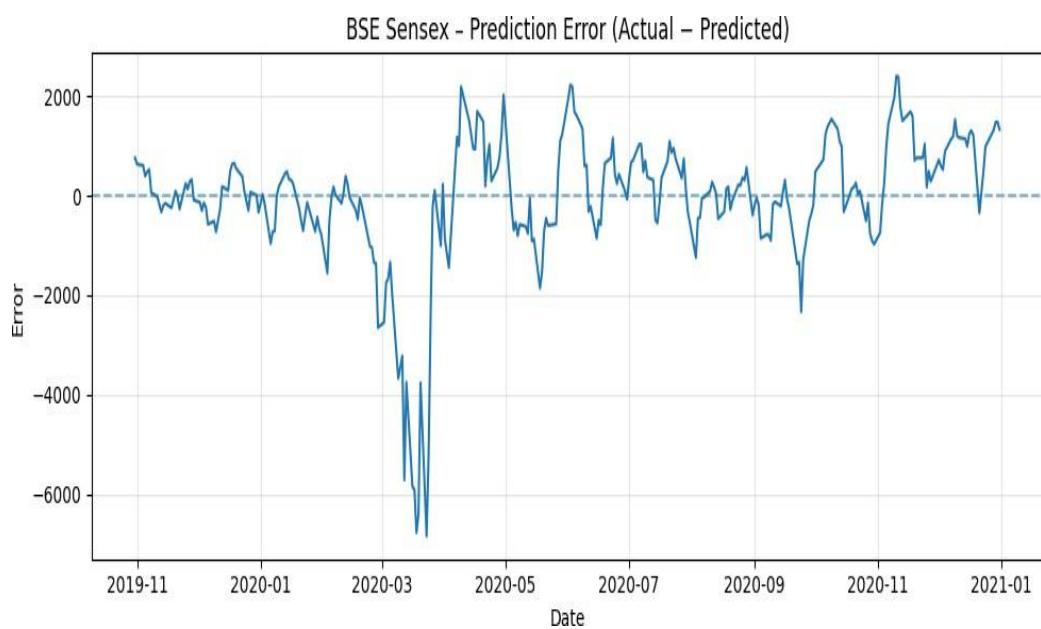
BSE Sensex - Actual vs Predicted Stock Price



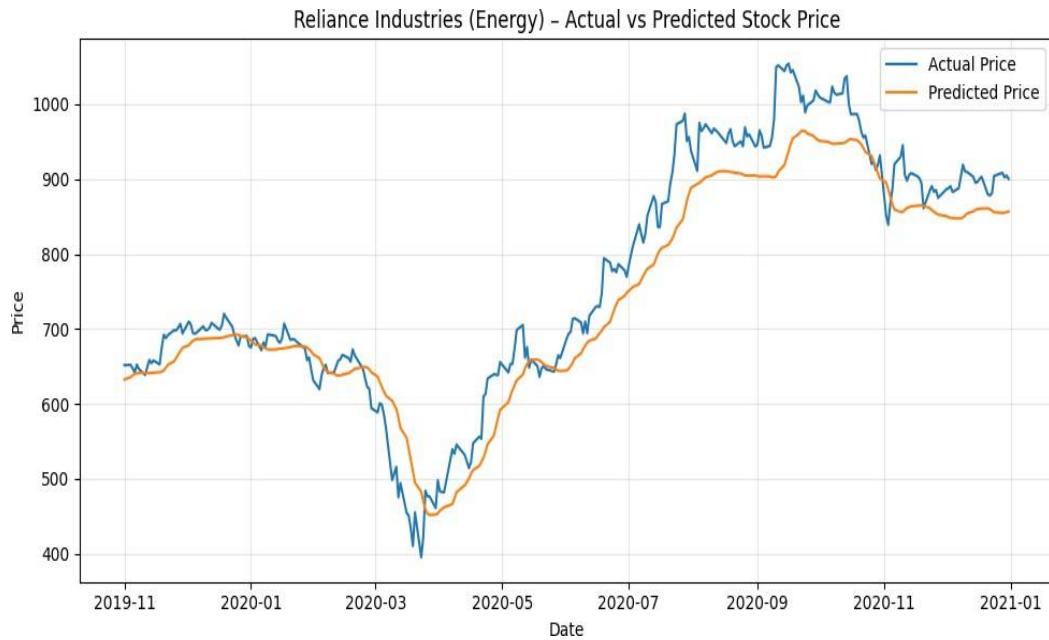
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



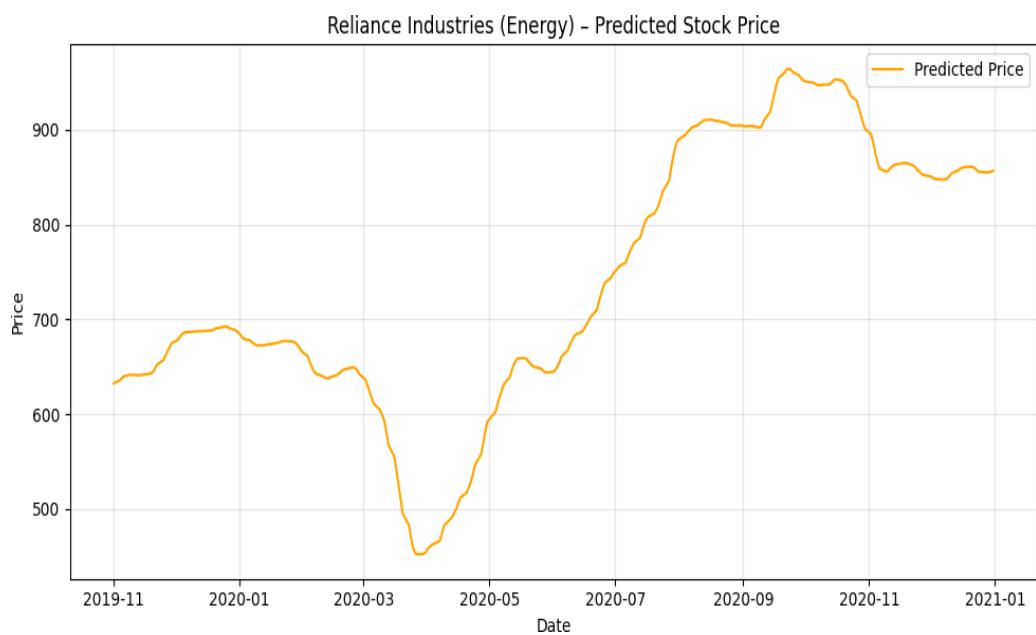
- **Figure 28.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



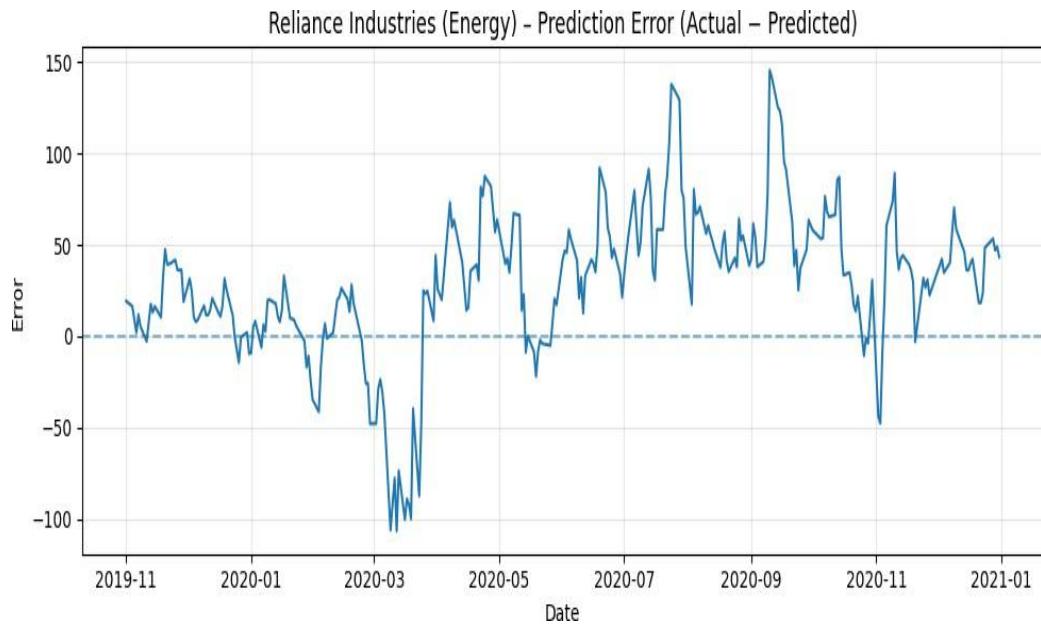
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



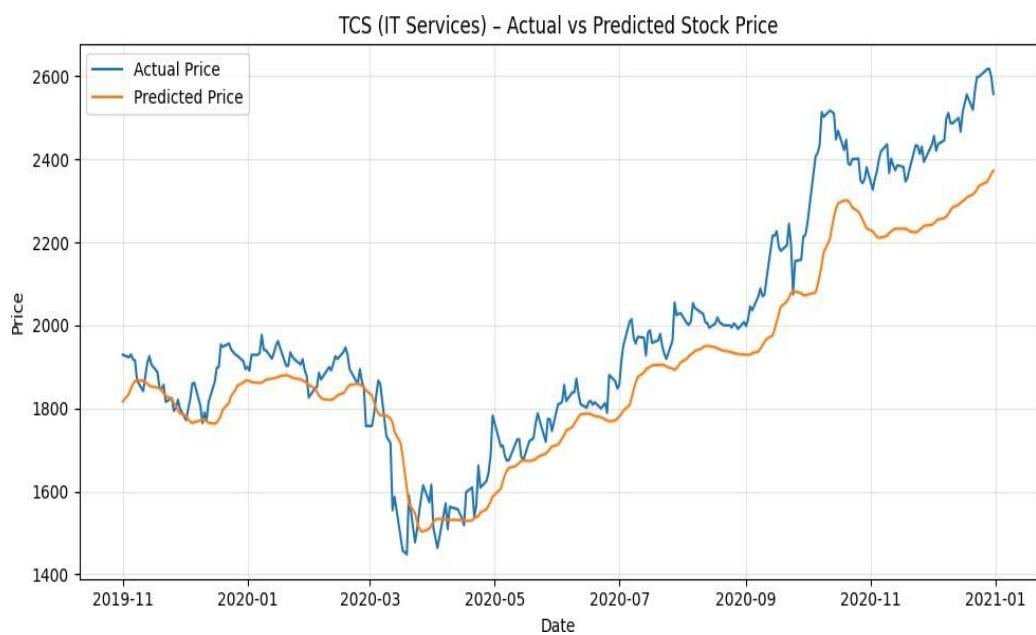
- **Figure 30.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



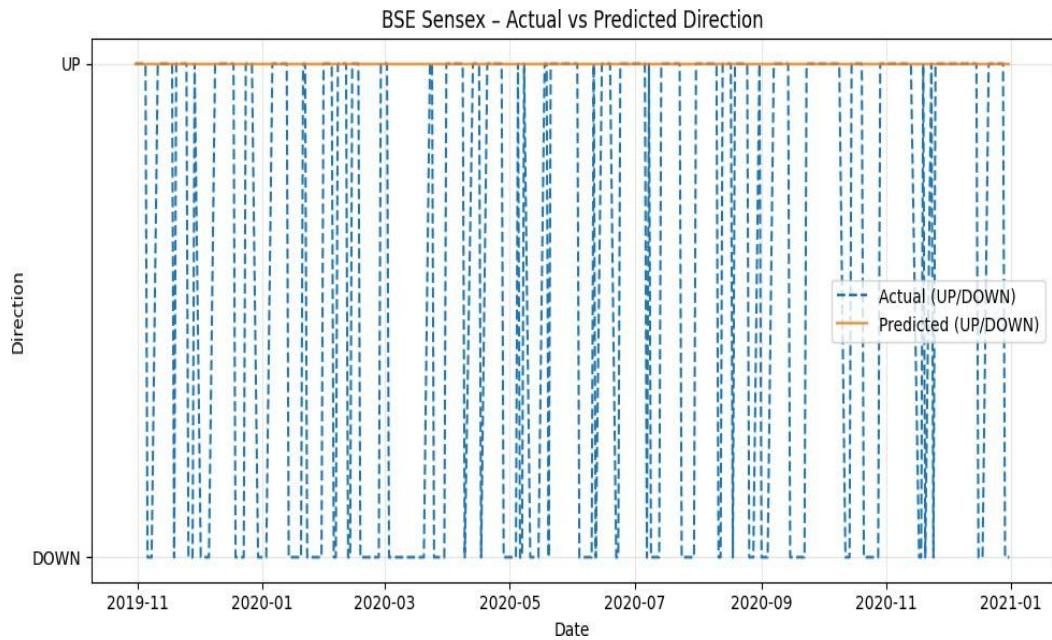
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



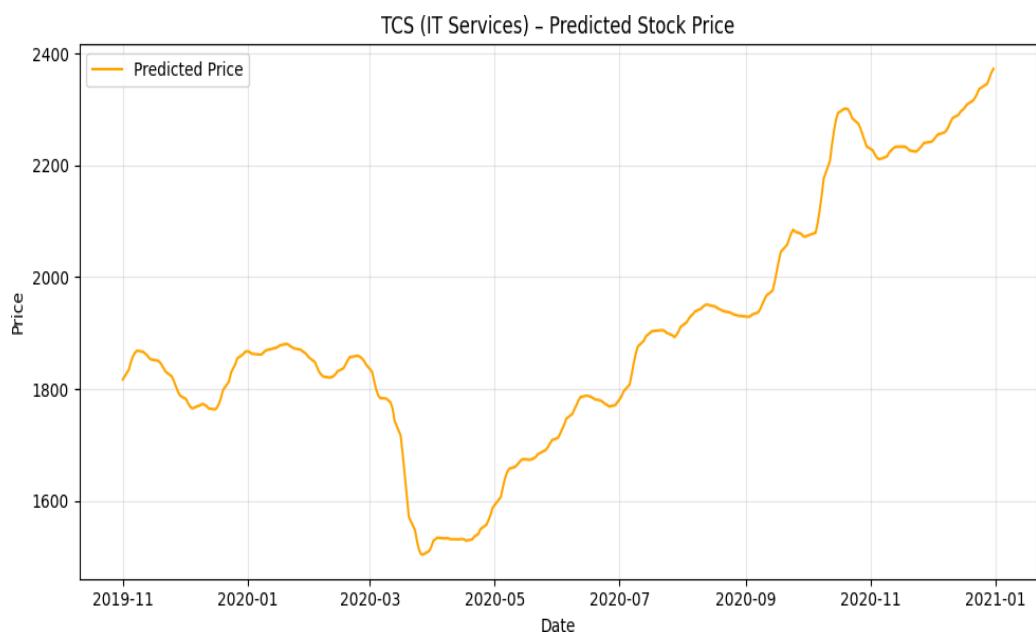
- **Figure 32.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



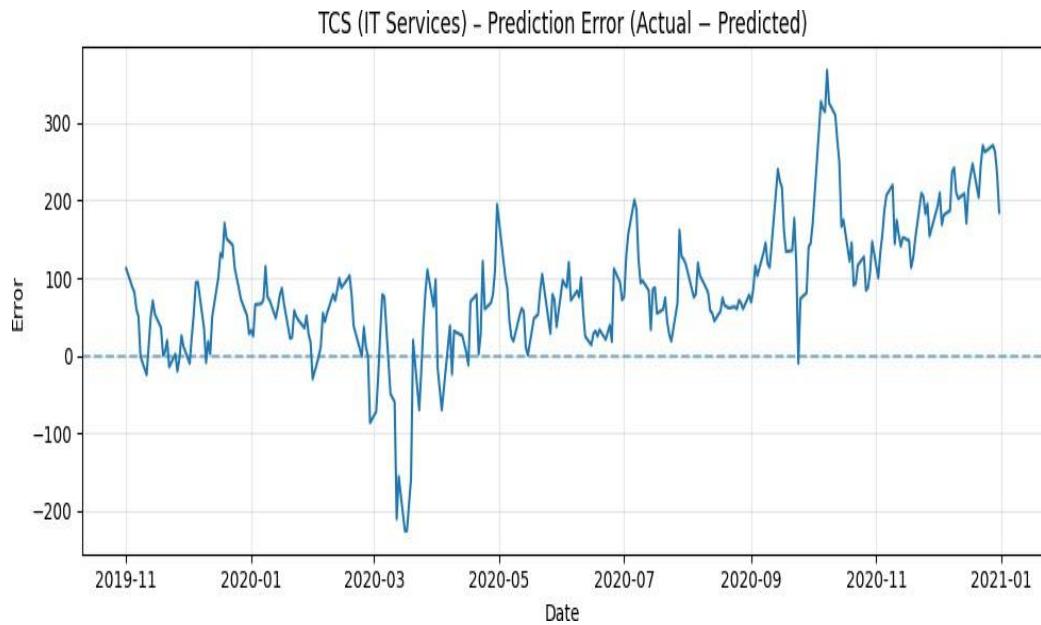
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



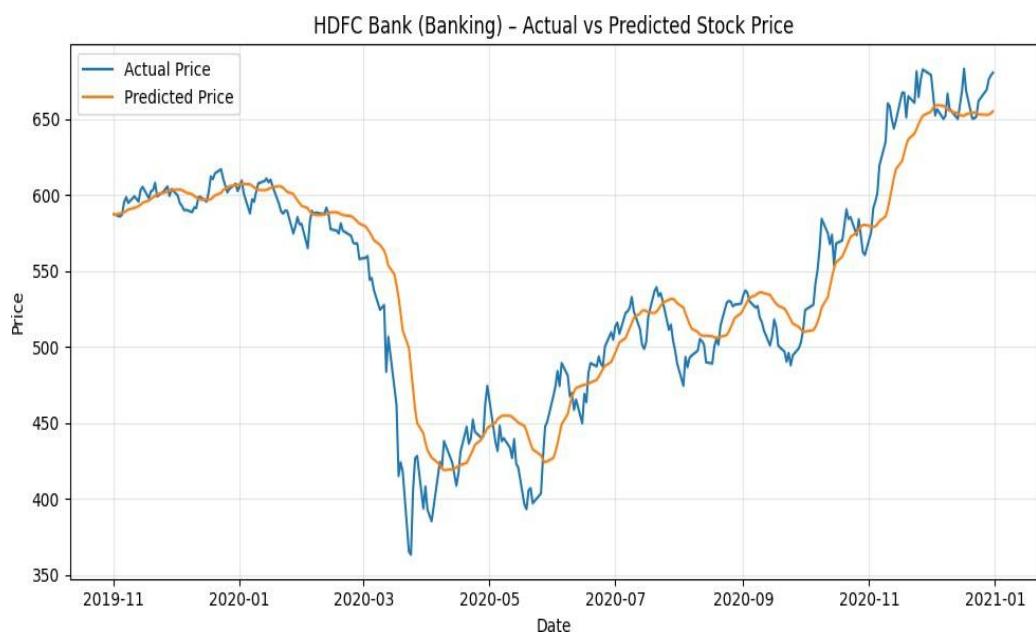
- **Figure 34.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



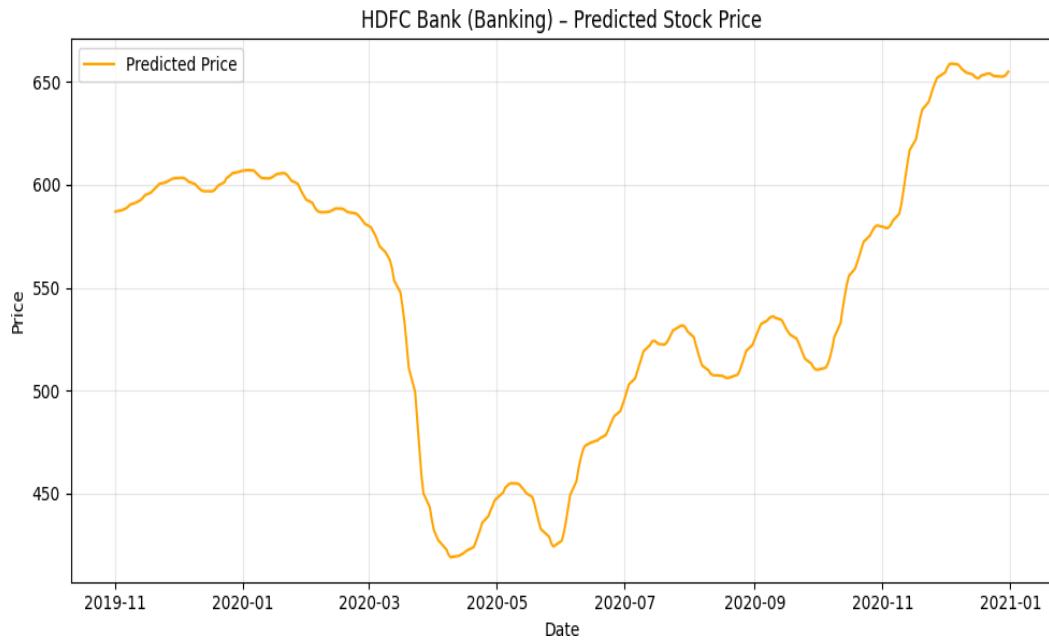
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



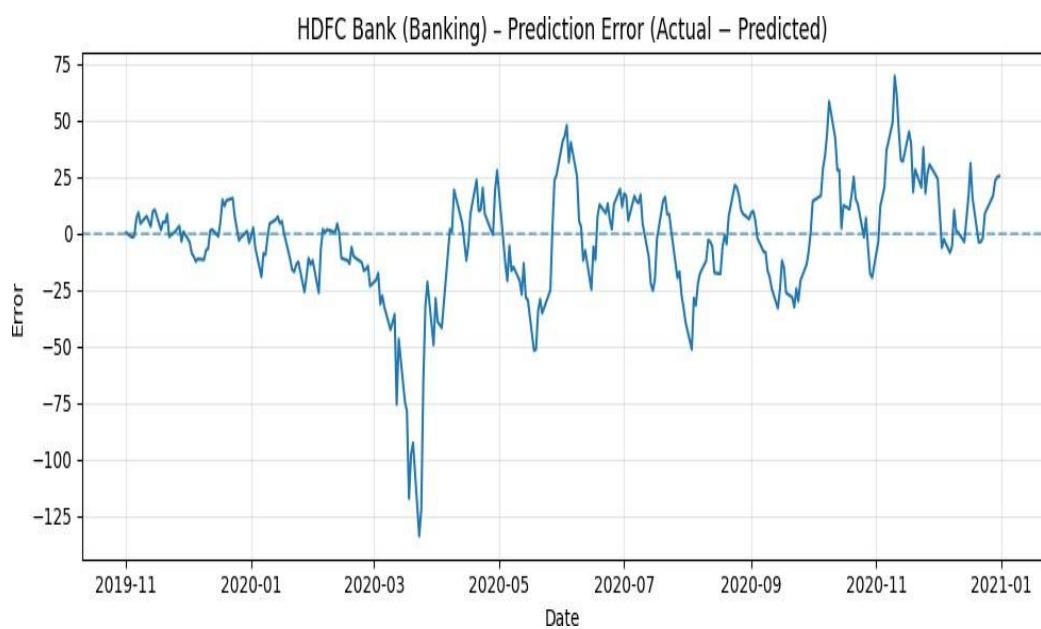
- **Figure 36.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



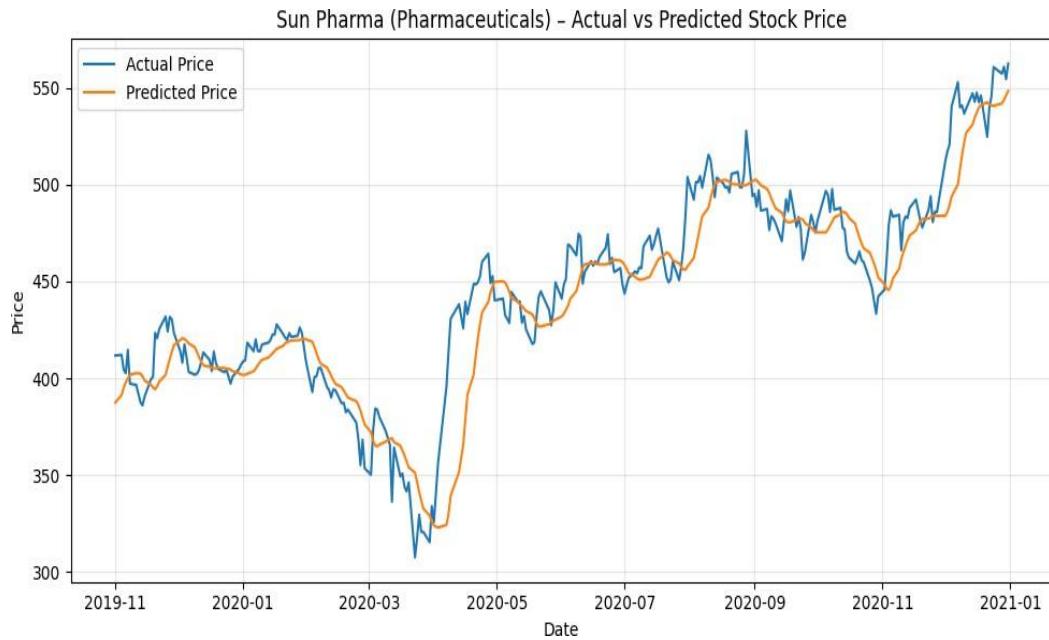
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



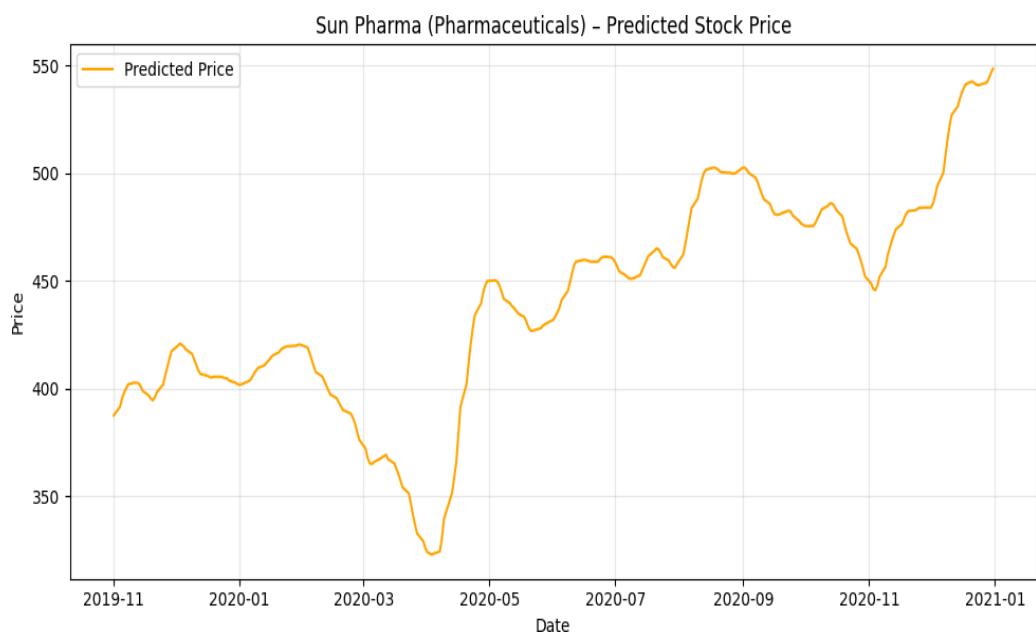
- **Figure 38.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



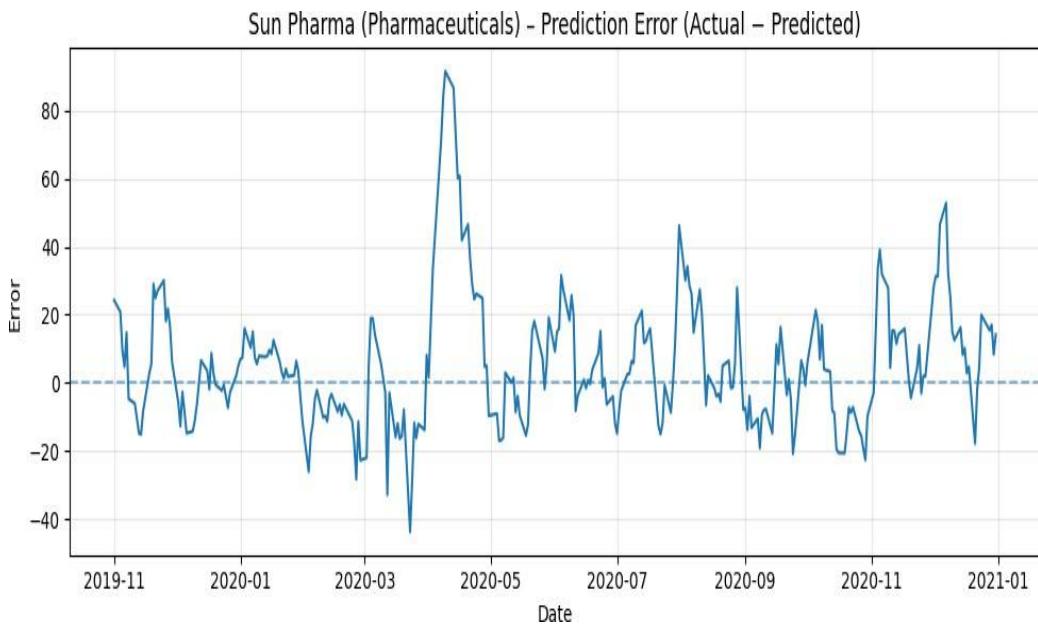
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 40.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

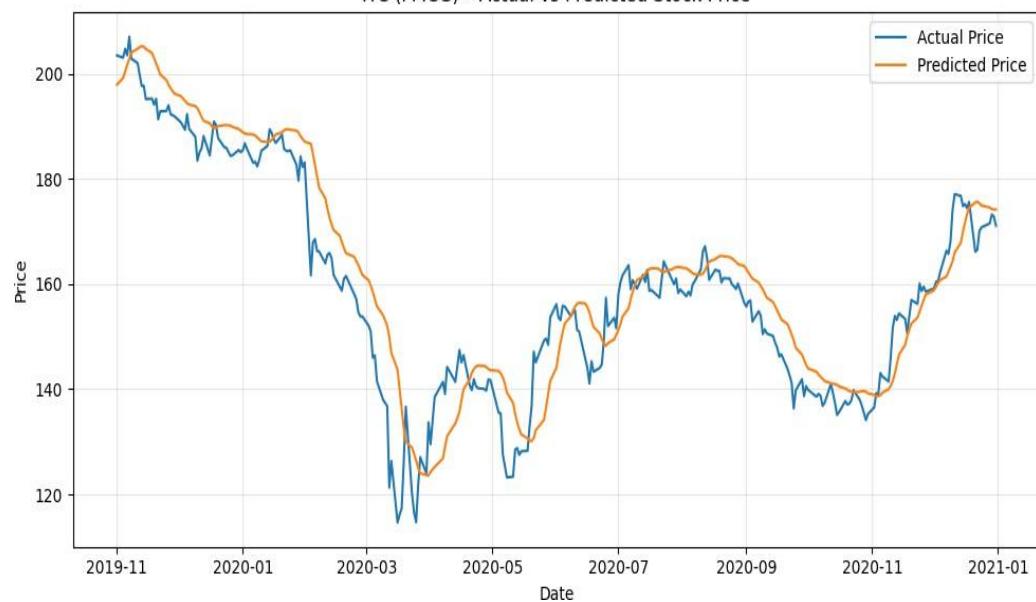


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

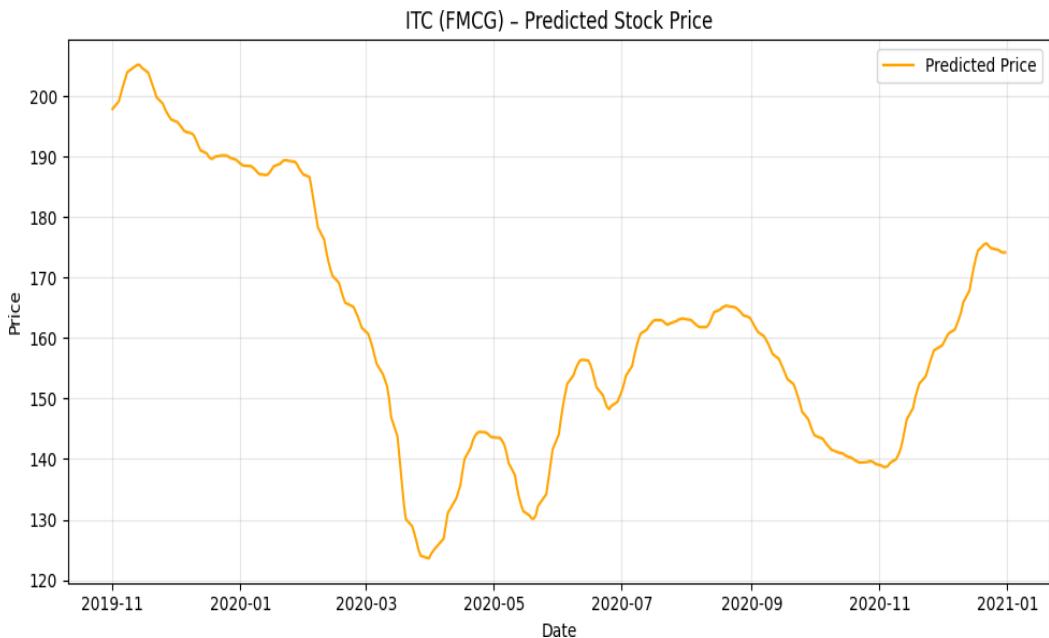


- **Figure 42.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

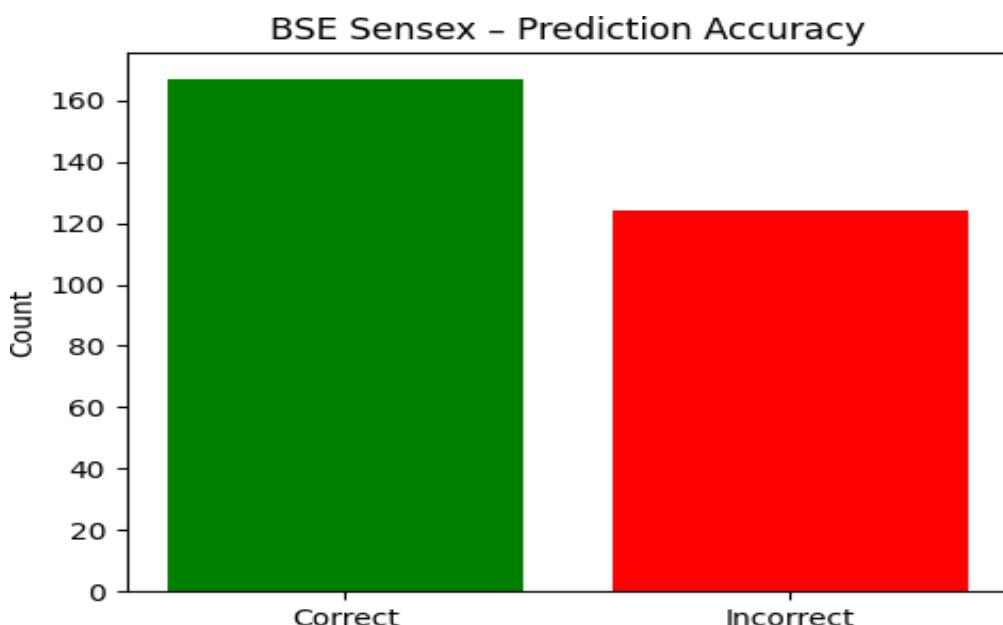
ITC (FMCG) - Actual vs Predicted Stock Price



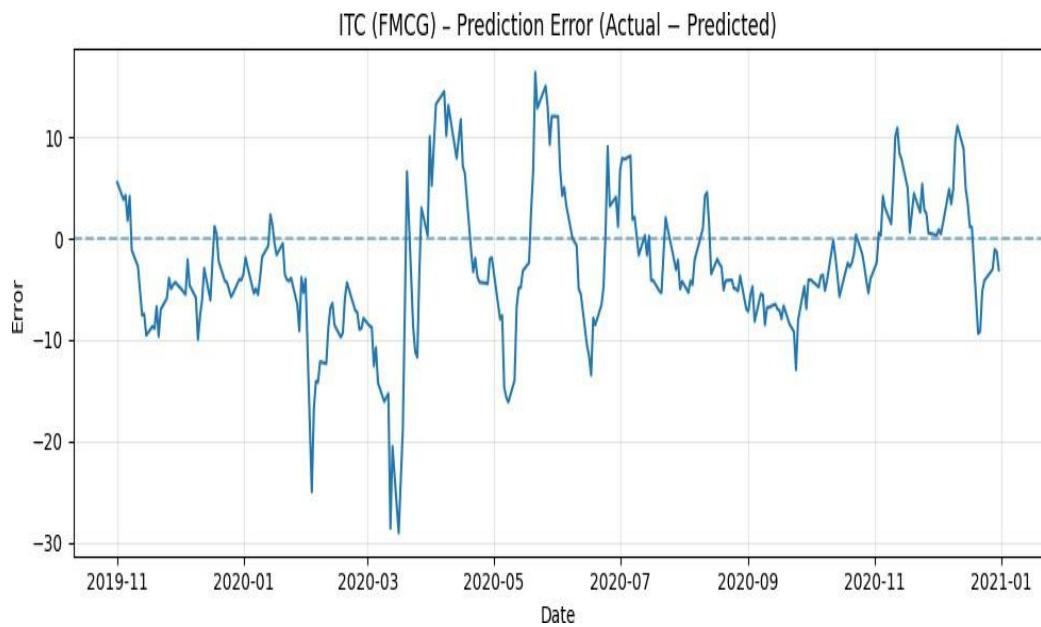
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 44.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

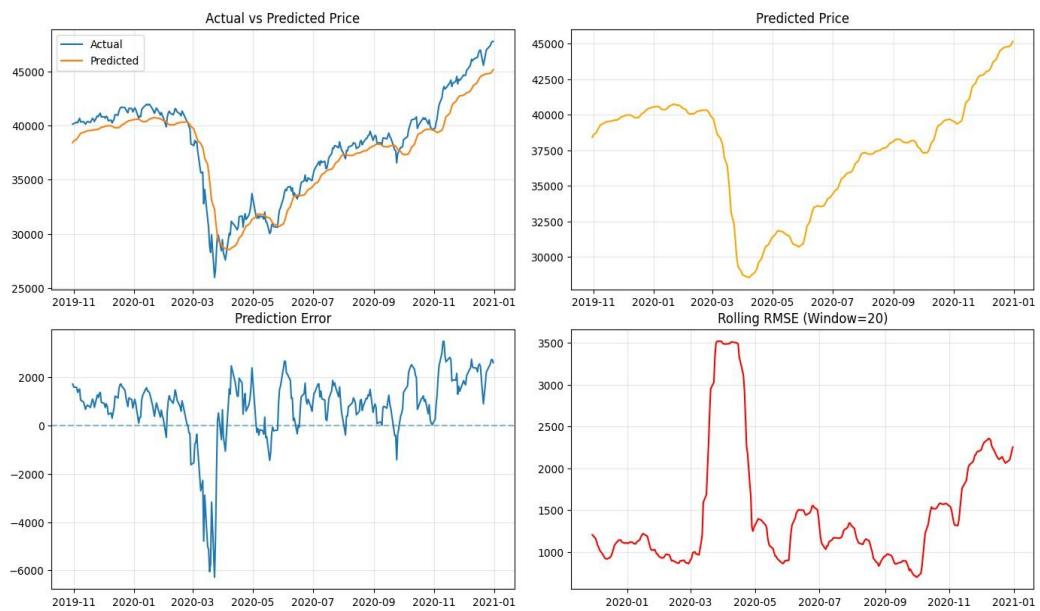


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

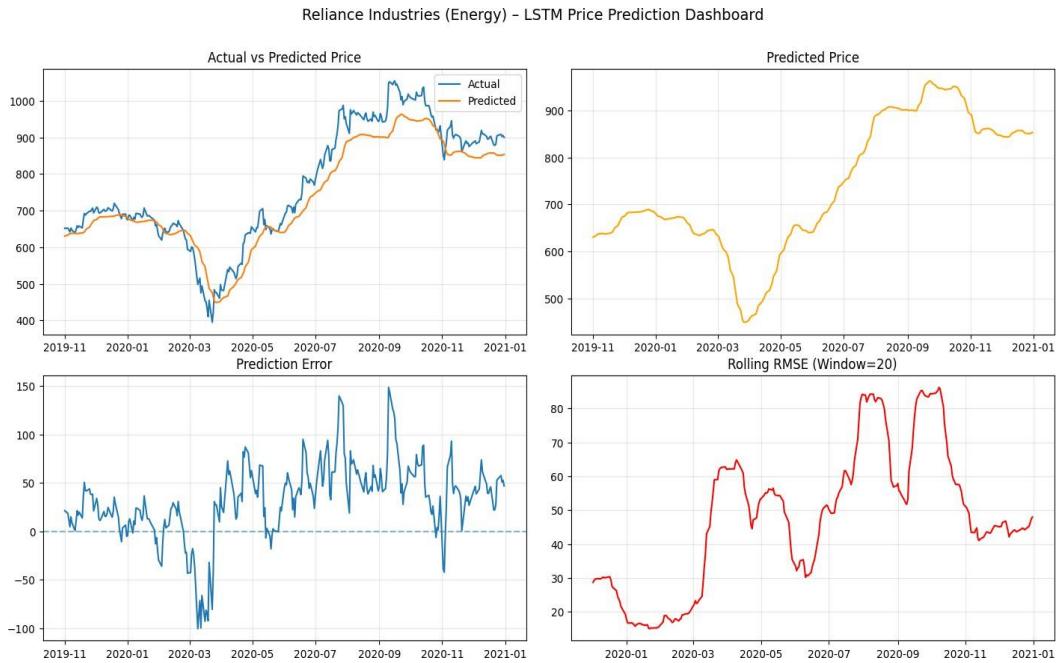


- **Figure 46.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

### BSE Sensex - LSTM Price Prediction Dashboard

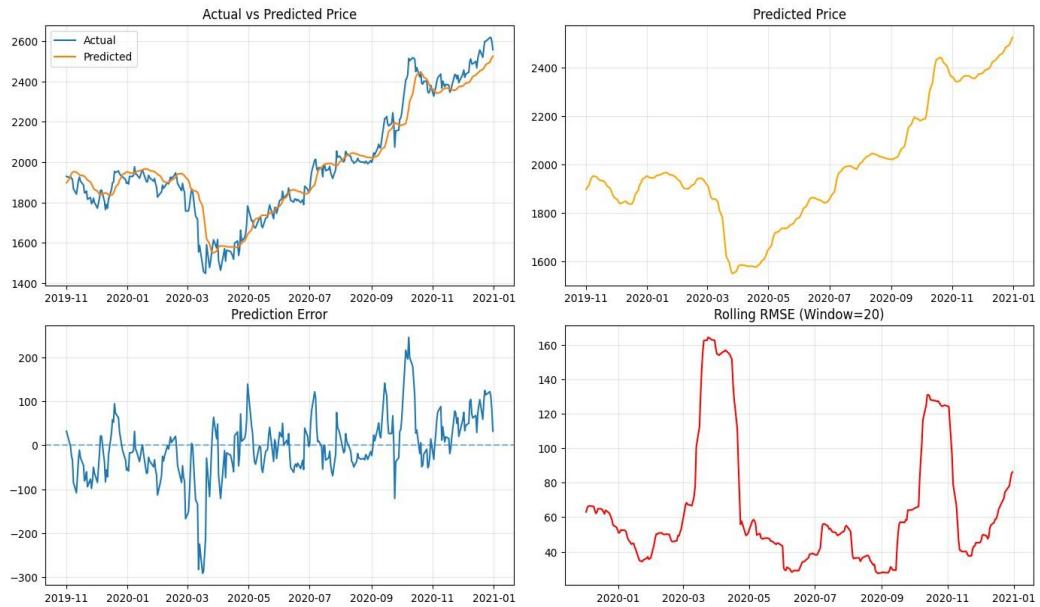


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

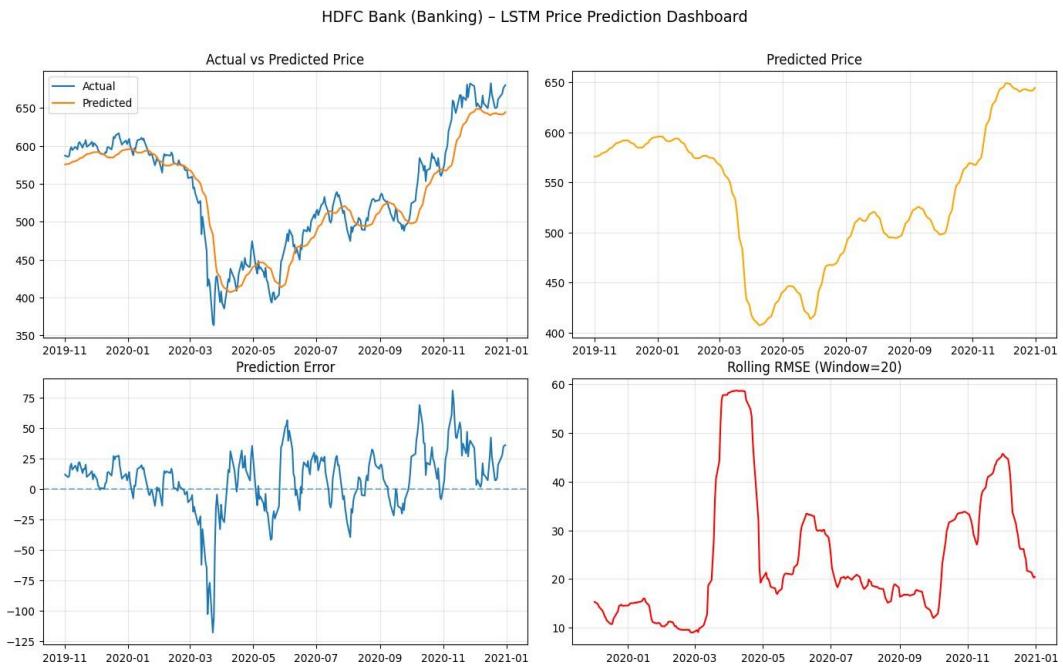


- **Figure 48. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

### TCS (IT Services) - LSTM Price Prediction Dashboard

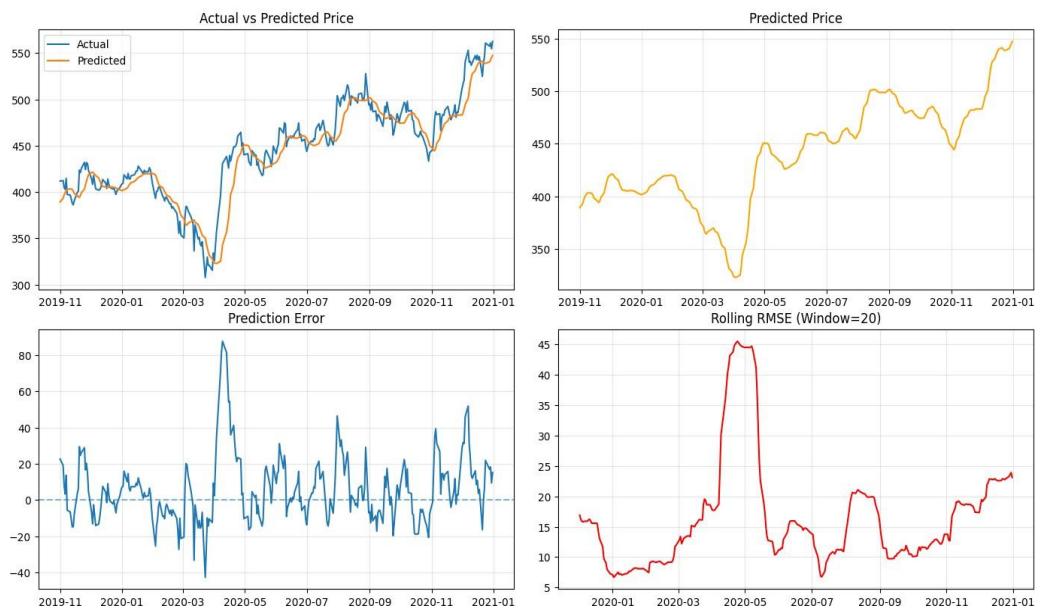


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

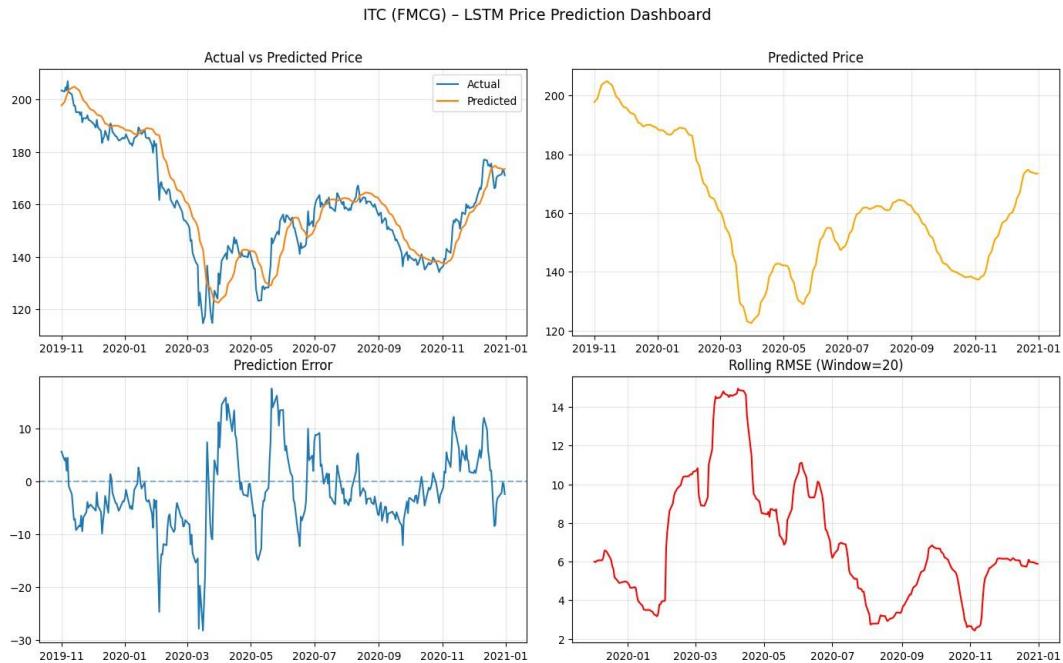


- **Figure 50.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

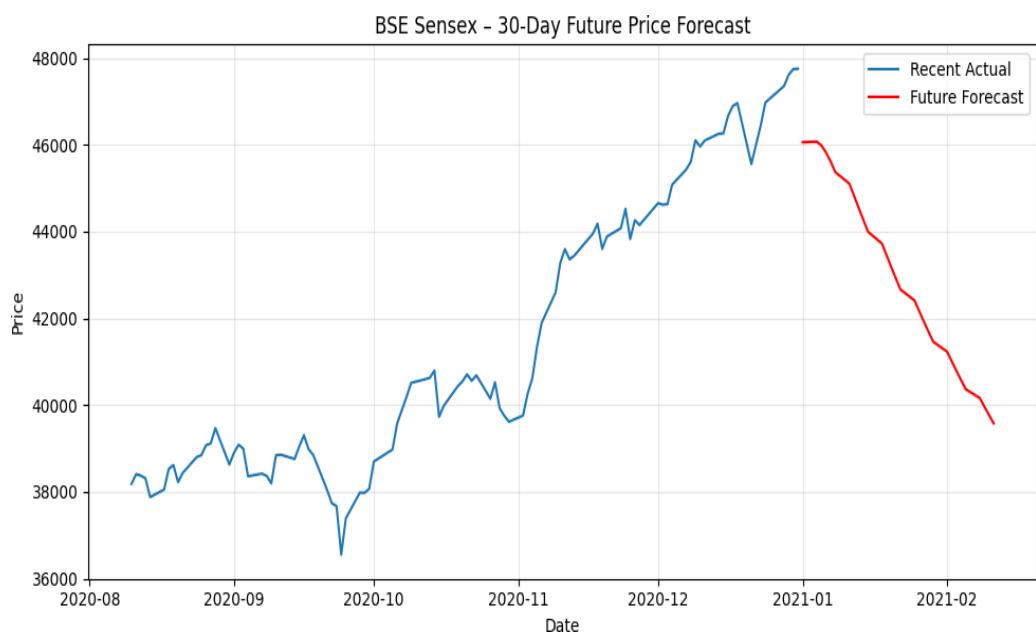
### Sun Pharma (Pharmaceuticals) – LSTM Price Prediction Dashboard



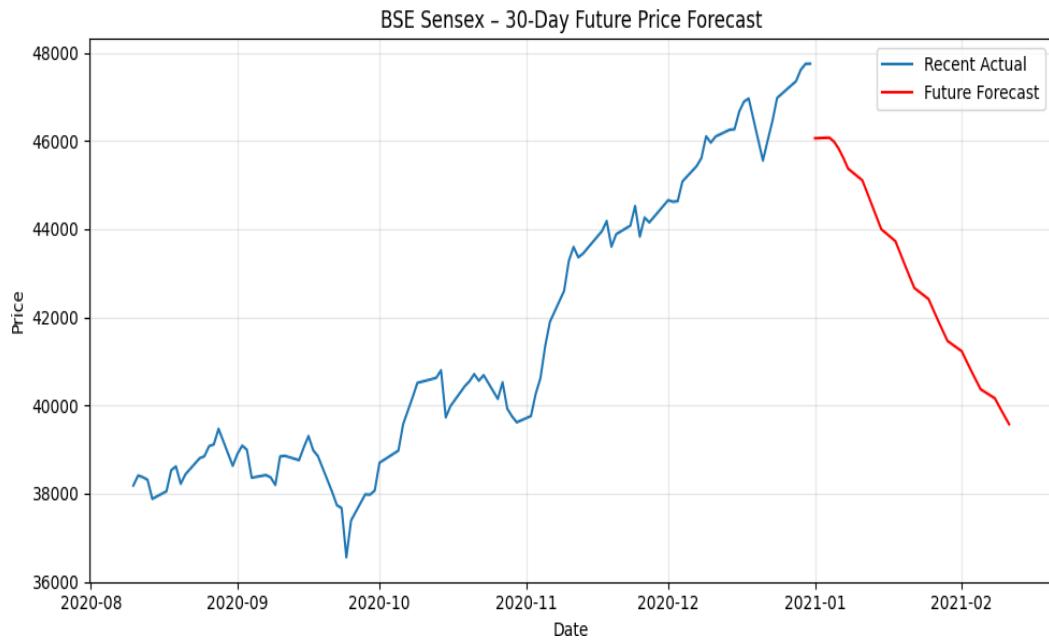
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



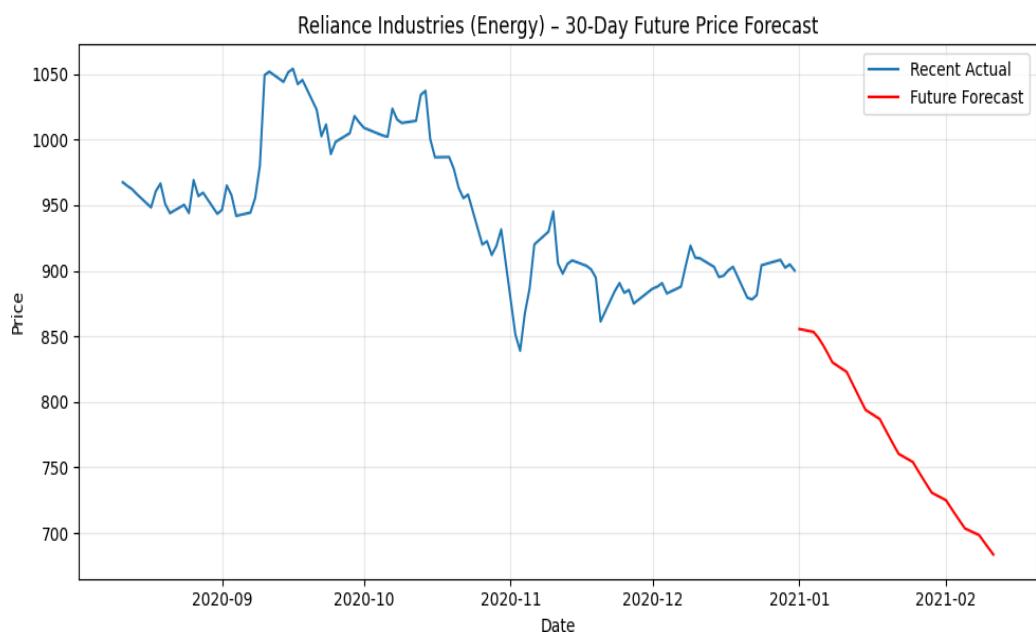
- **Figure 52. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



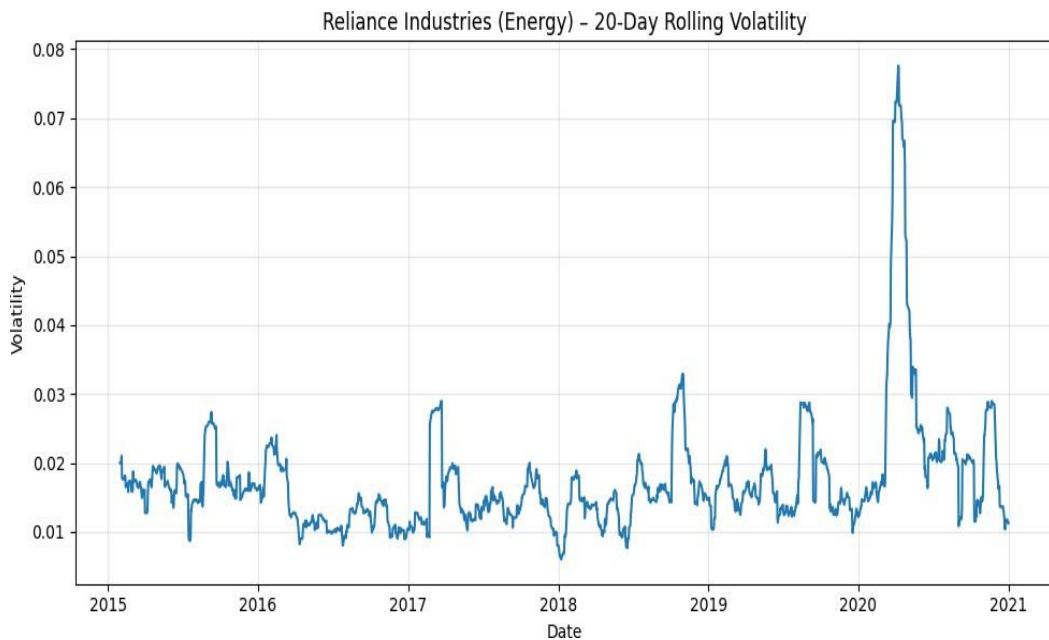
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



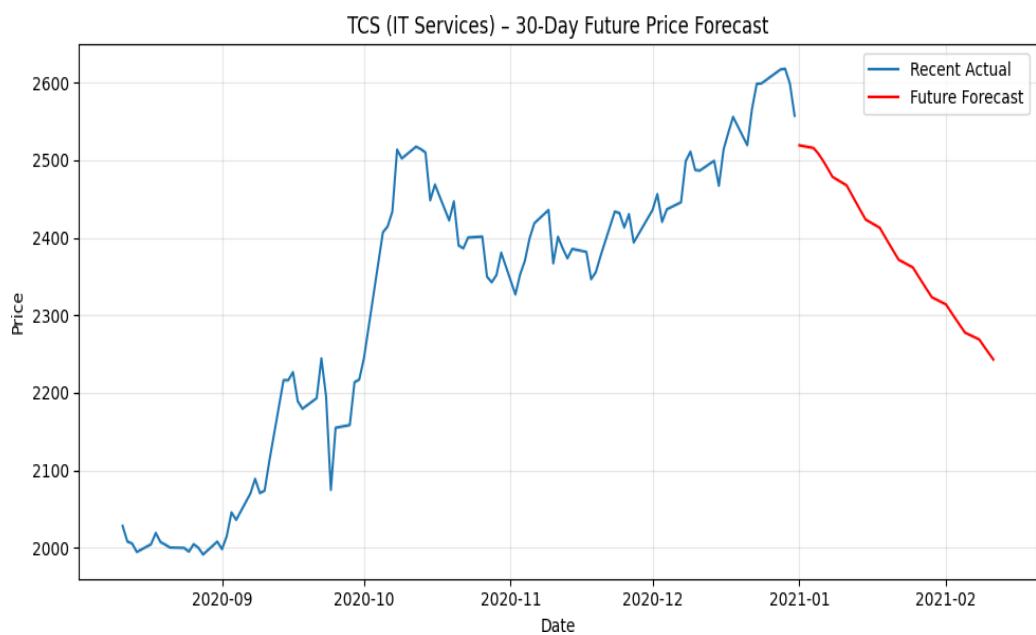
- **Figure 54.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



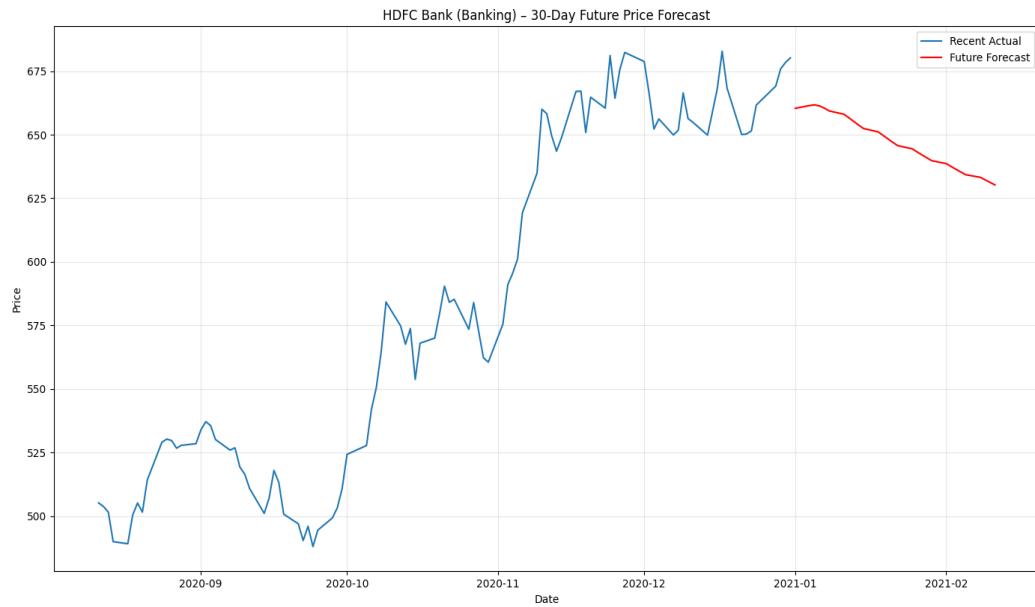
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



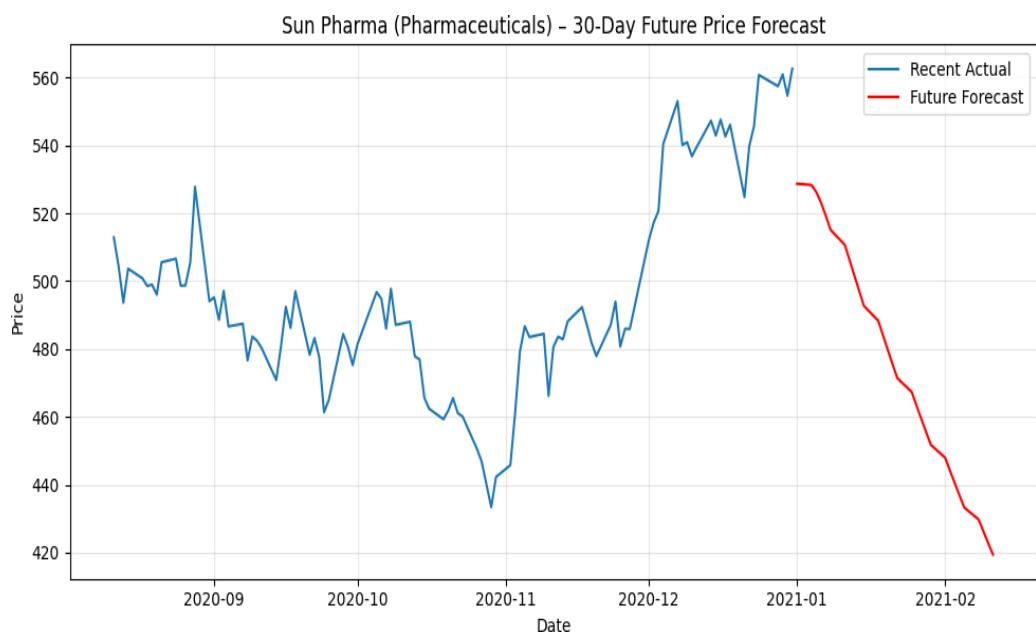
- **Figure 56.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



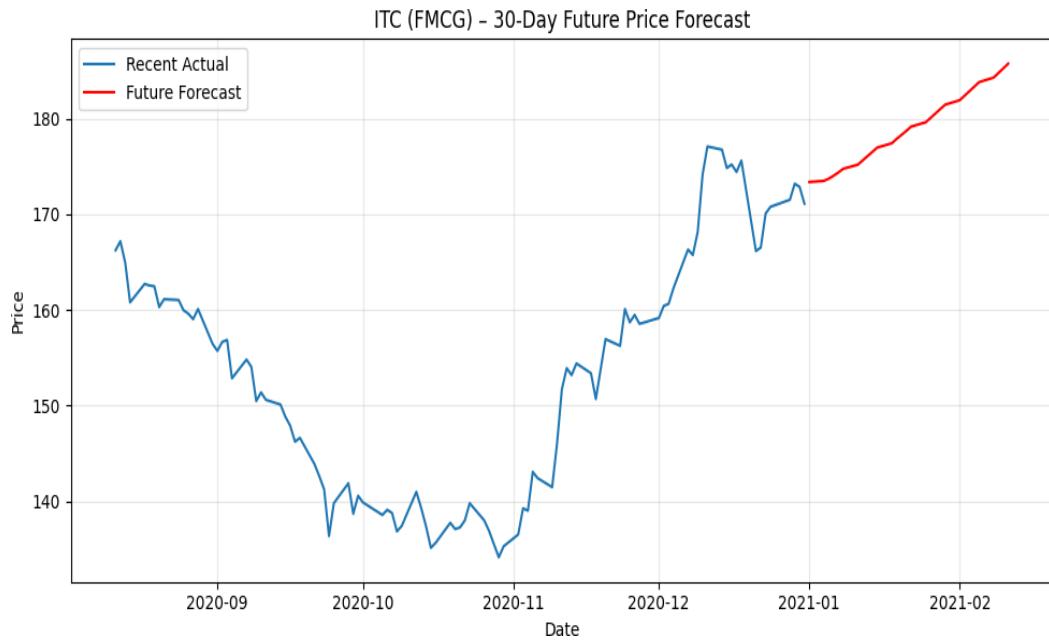
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



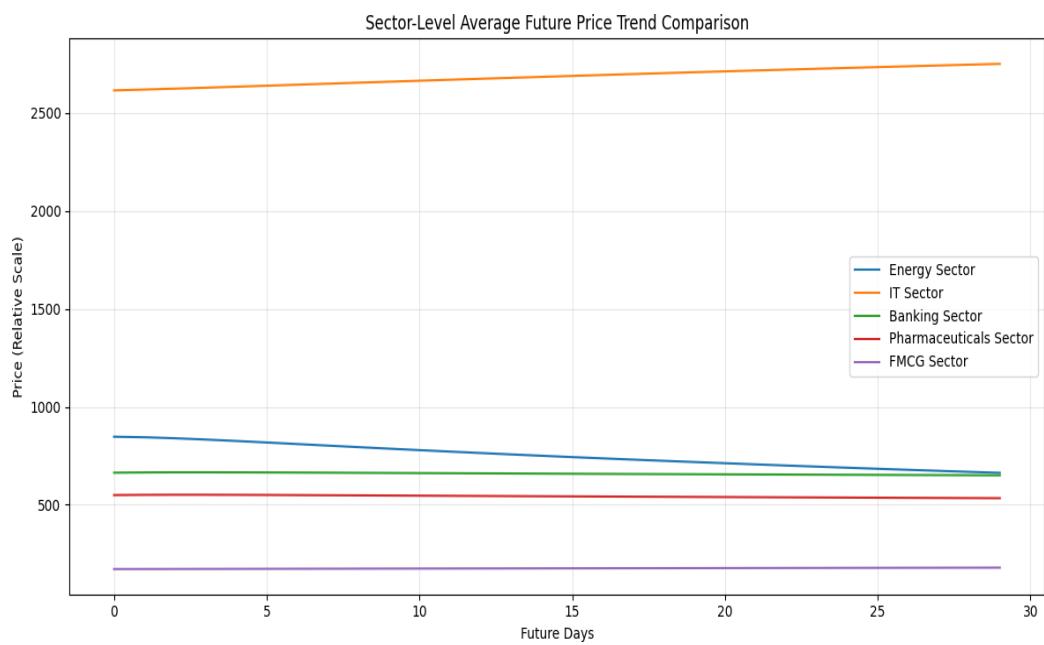
- **Figure 58.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



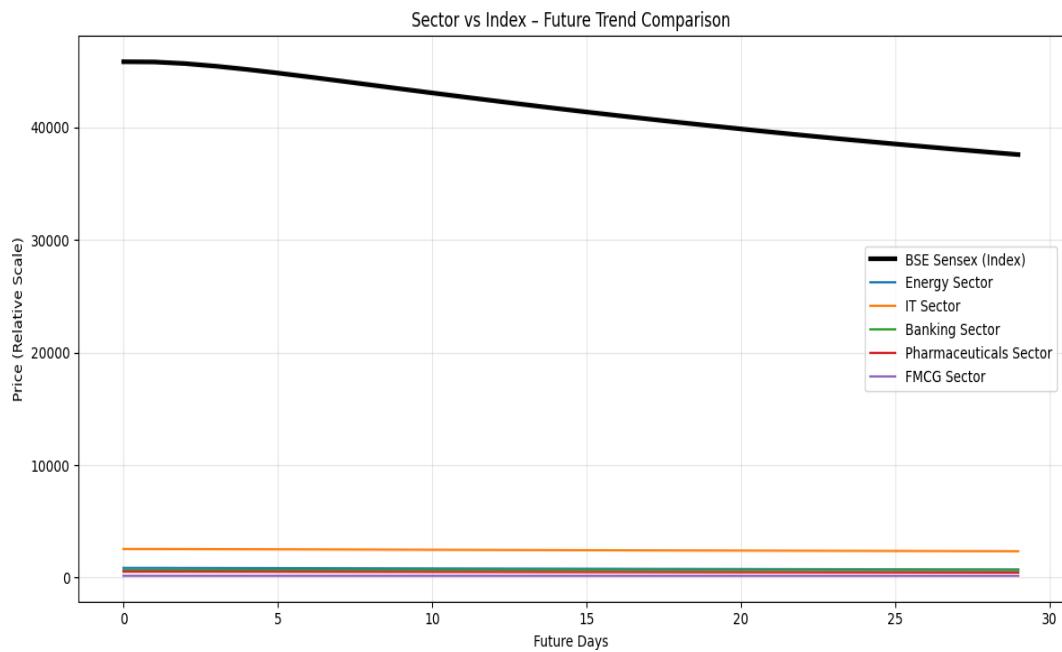
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



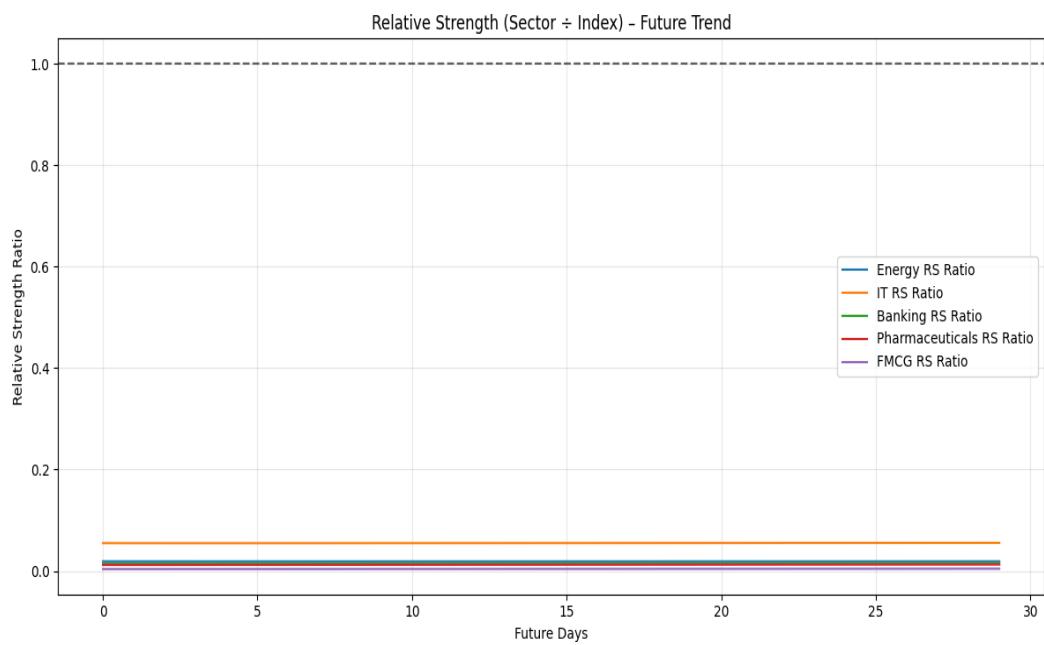
- **Figure 60.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



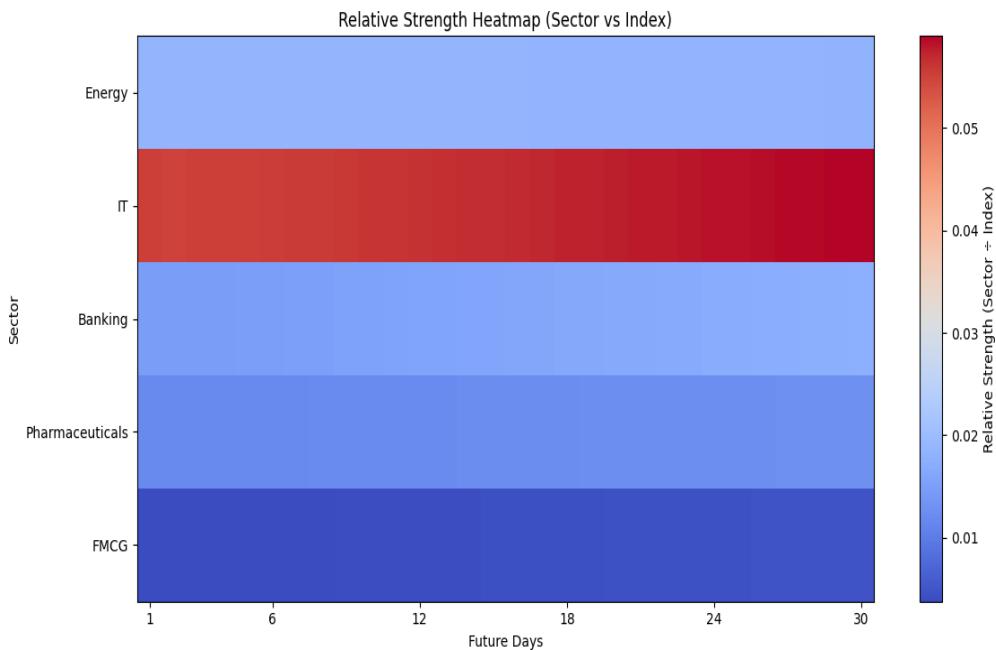
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



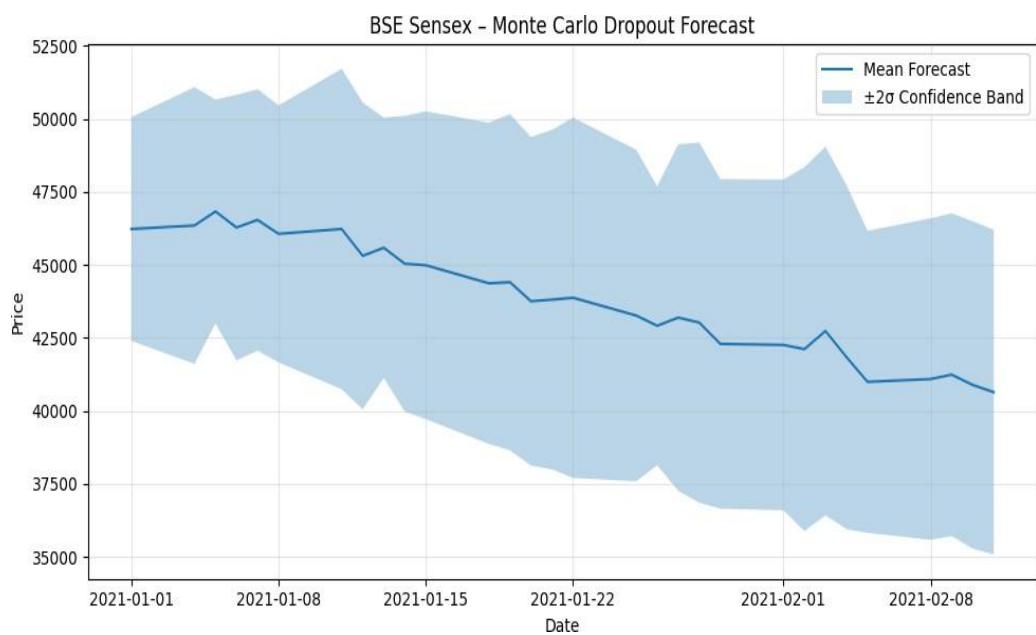
- **Figure 62.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



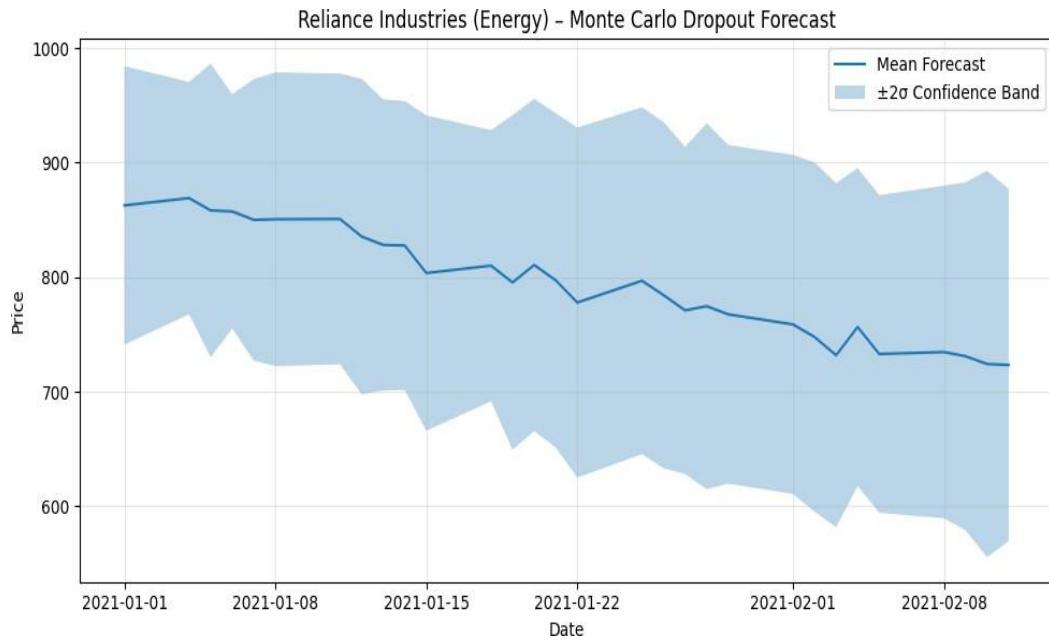
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



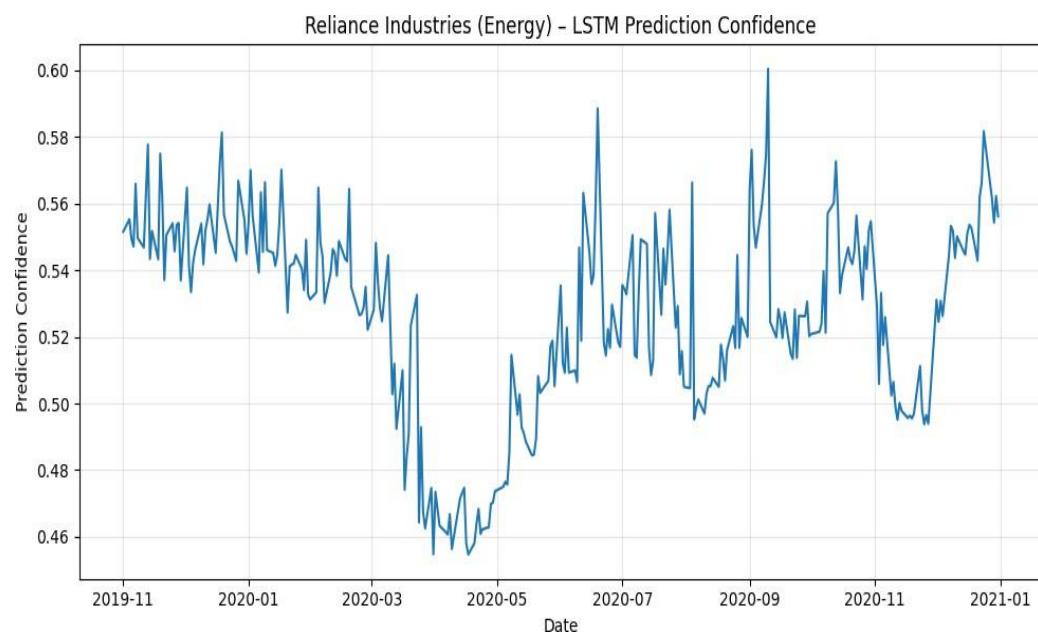
- **Figure 64.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



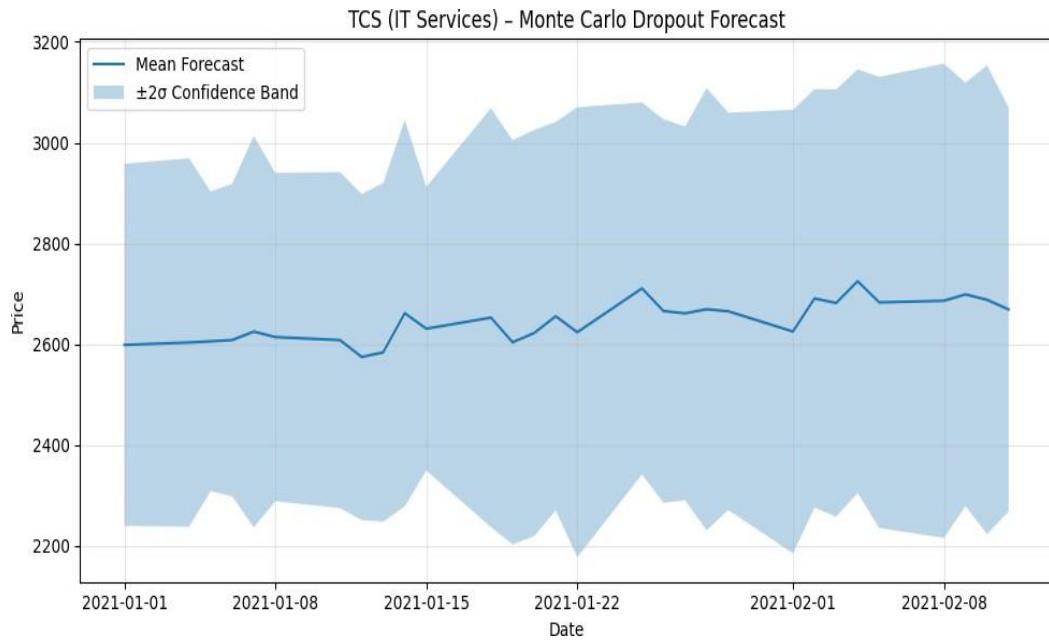
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



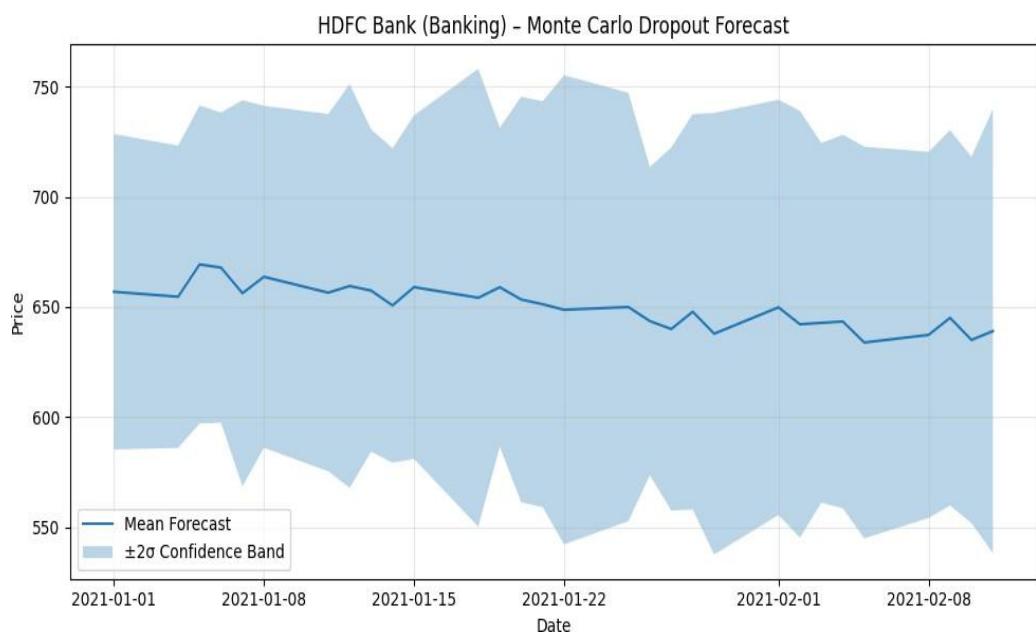
- **Figure 66.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



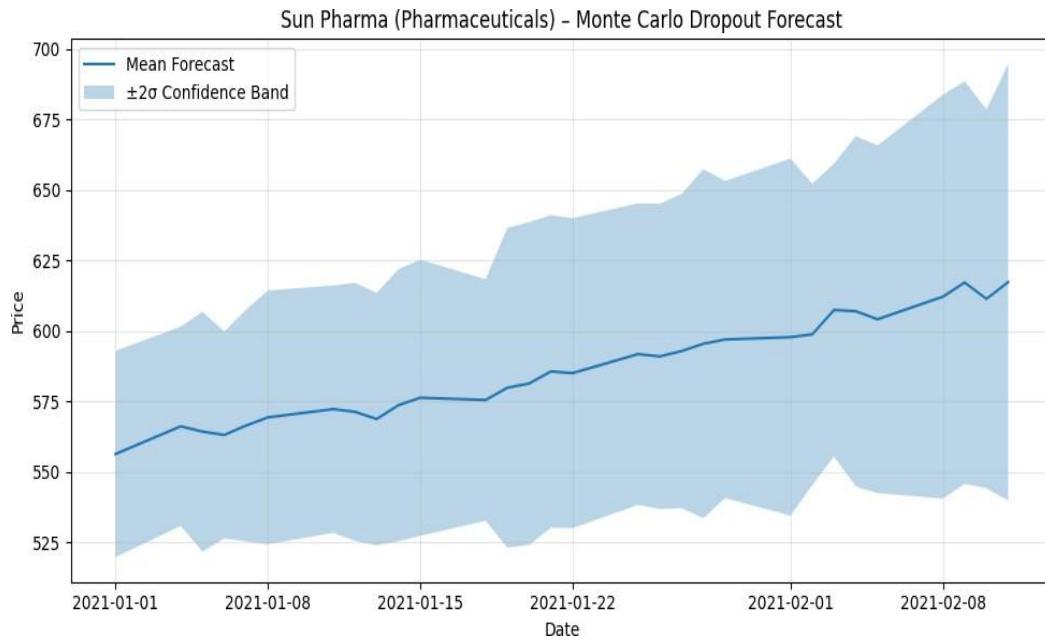
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 68.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

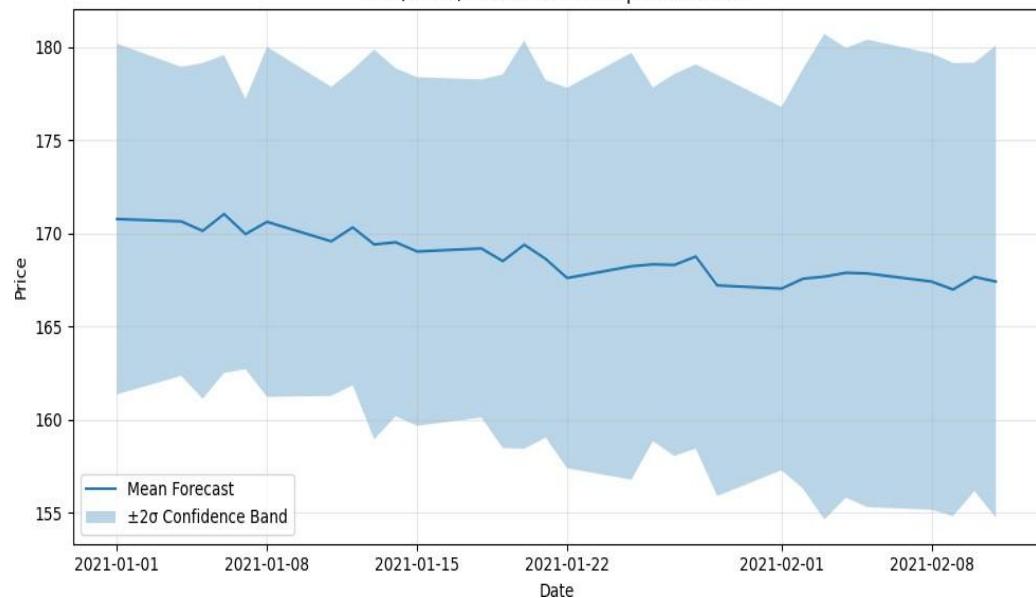


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

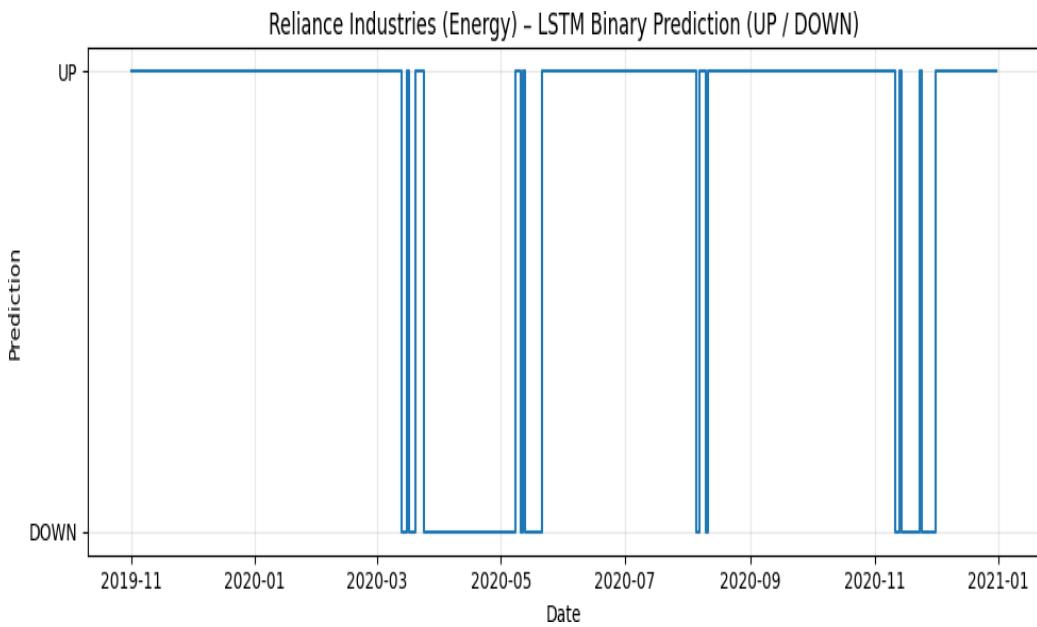


- **Figure 70.** Model Output Visualization
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

ITC (FMCG) - Monte Carlo Dropout Forecast



- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



**Figure 72.** Model Output Visualization

- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

