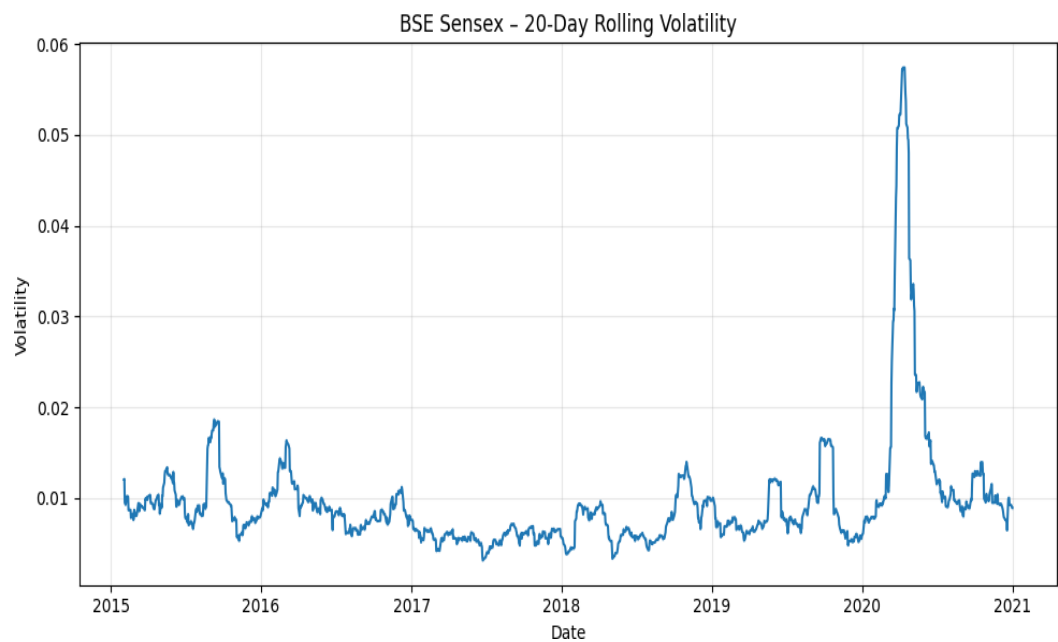


**Figure 1.** Model Output Visualization

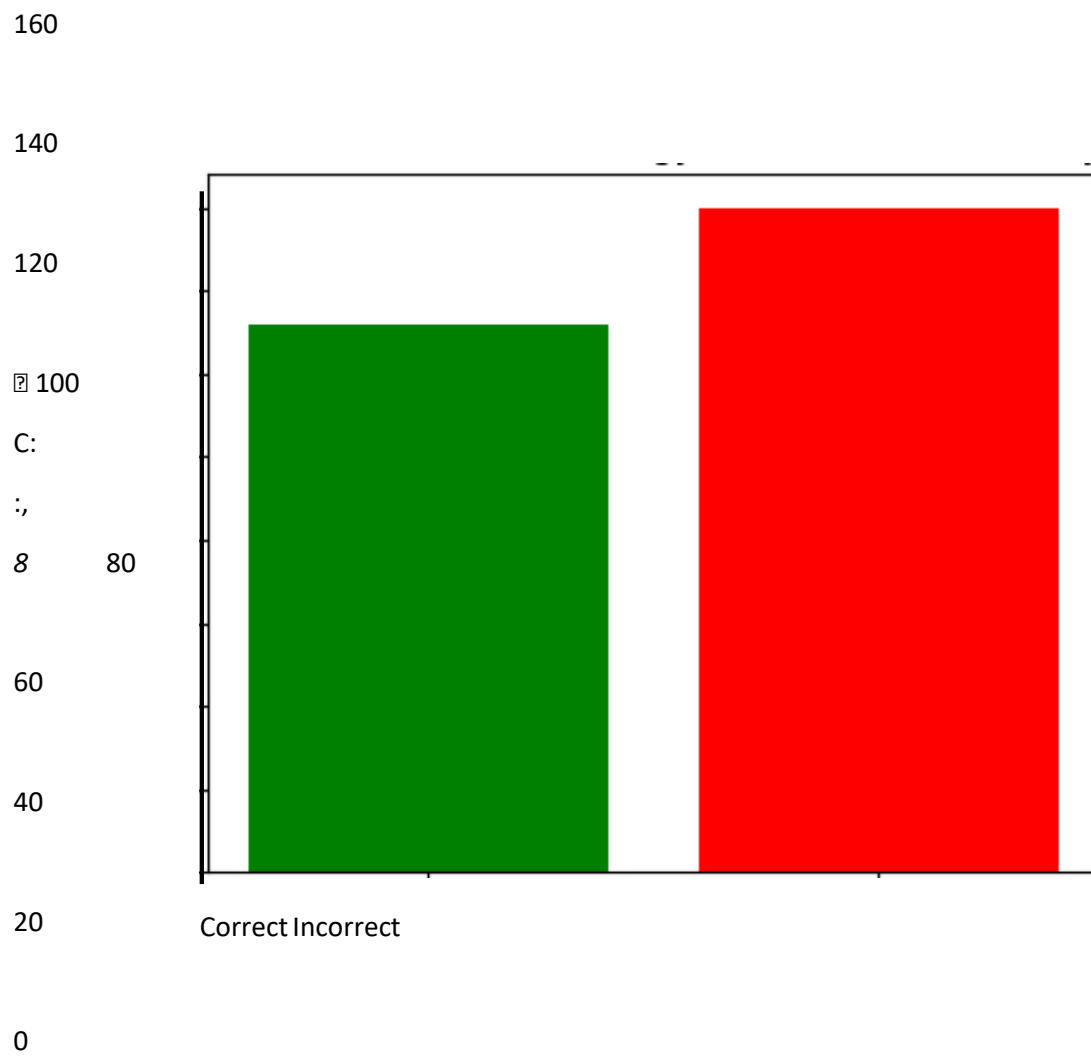
This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



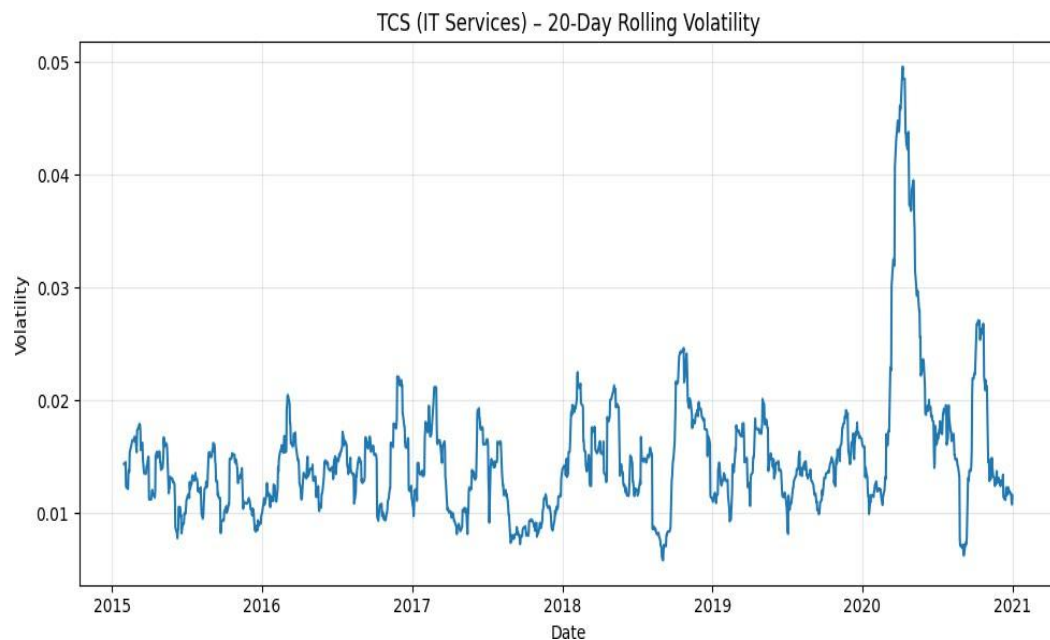
**Figure 2.** Model Output Visualization

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

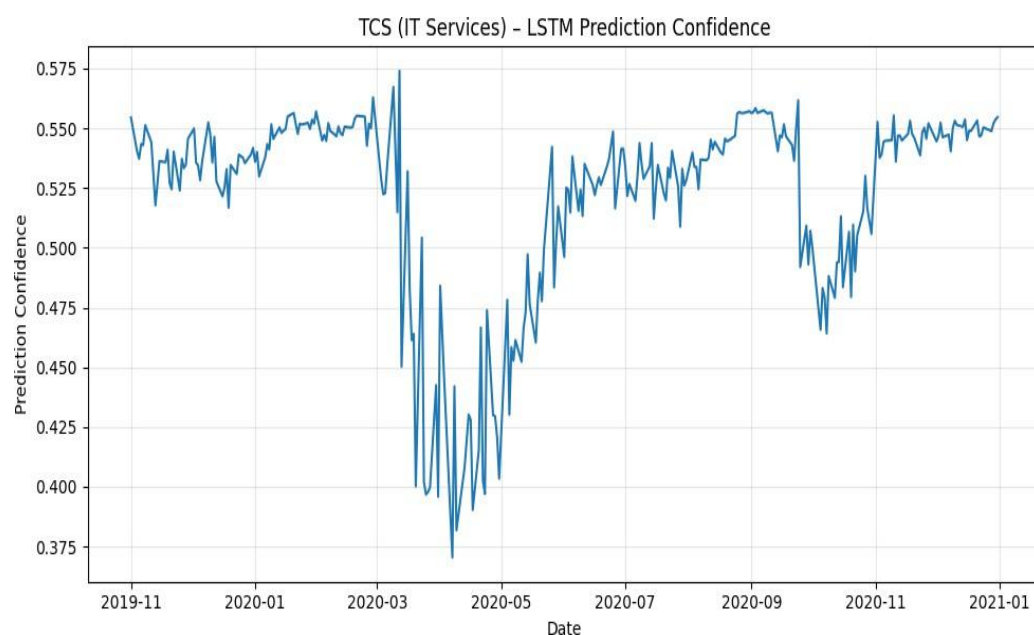


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

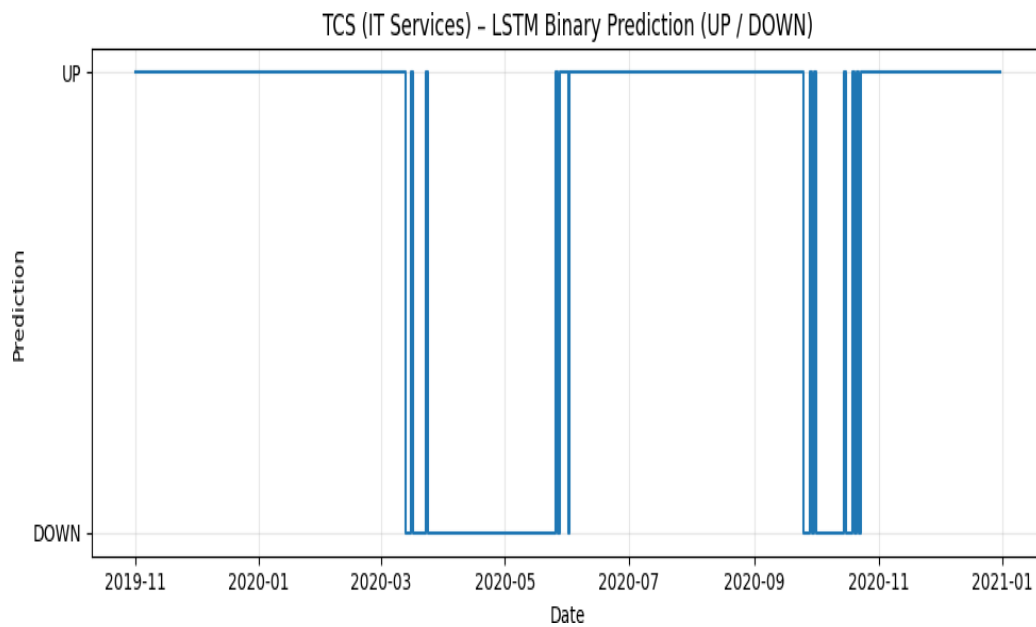


**Figure 4. Model Output Visualization**

- 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.

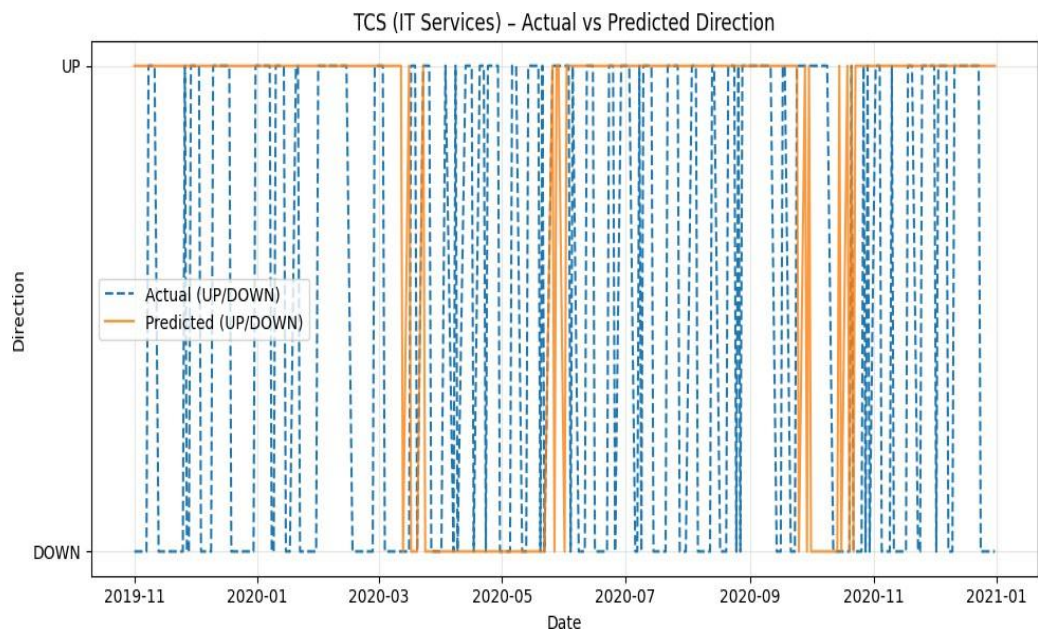


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

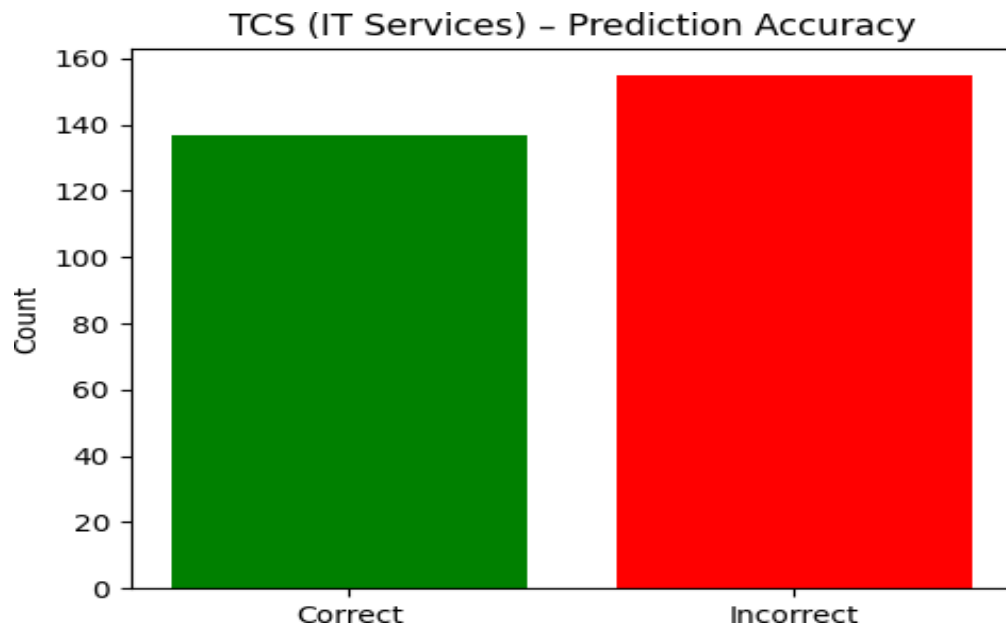


- **Figure 6. Model Output Visualization**

- 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.

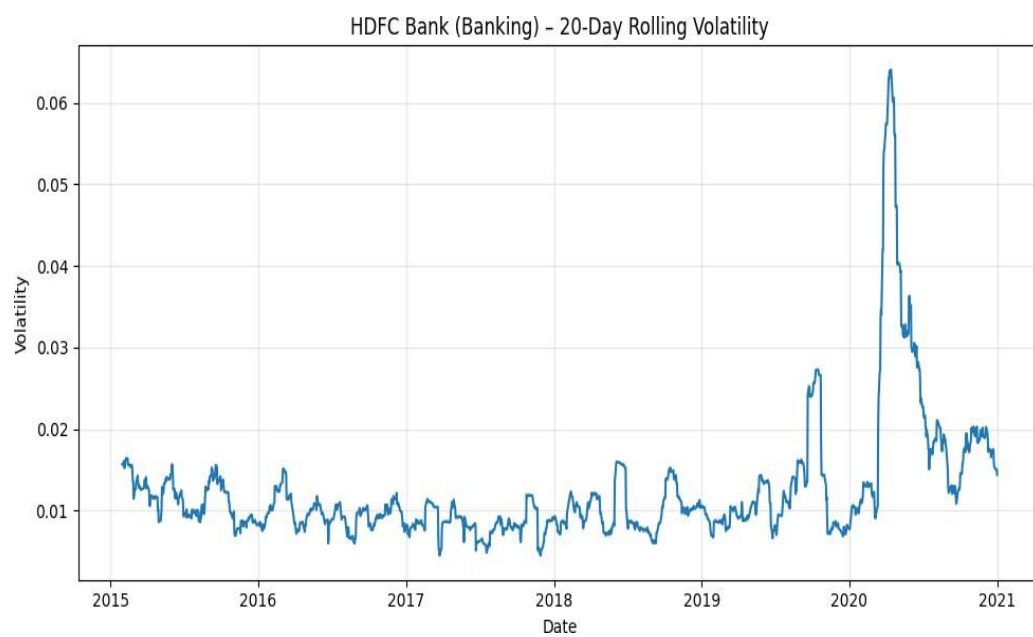


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

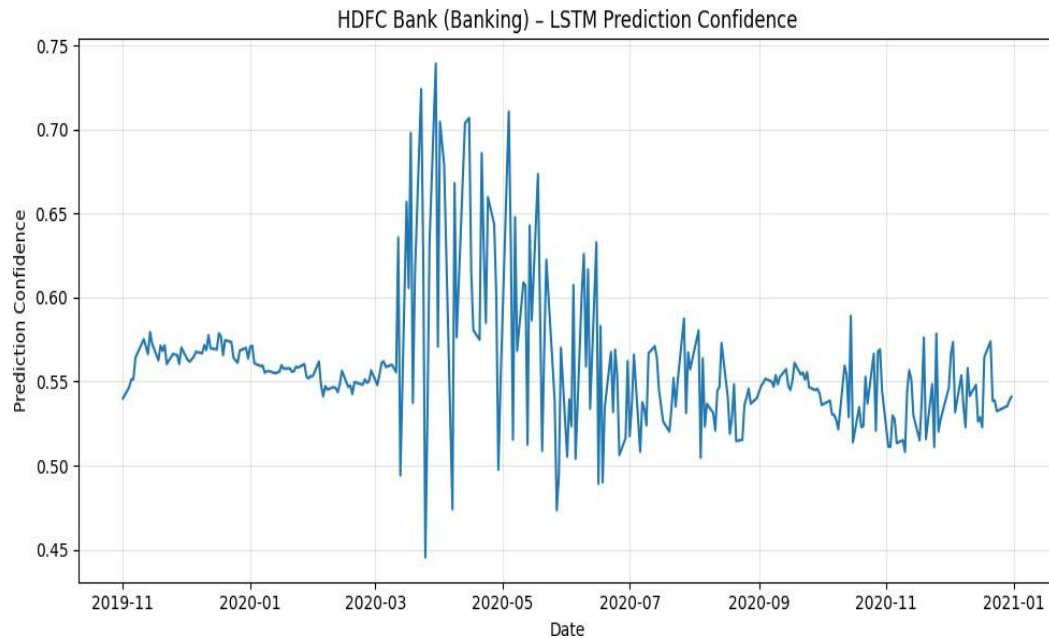


- **Figure 8.** Model Output Visualization

- 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.

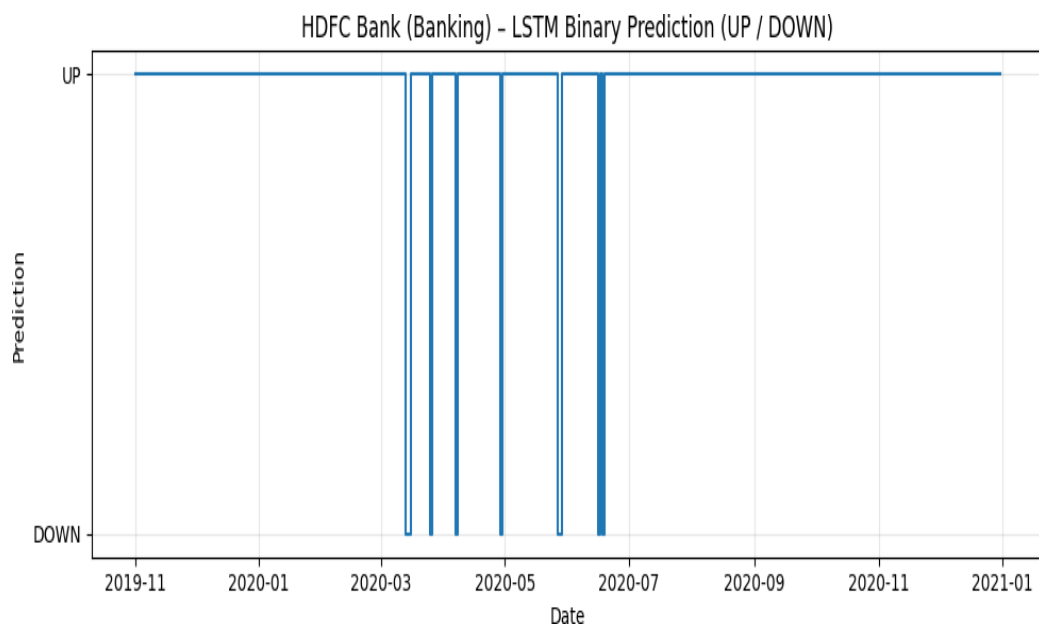


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

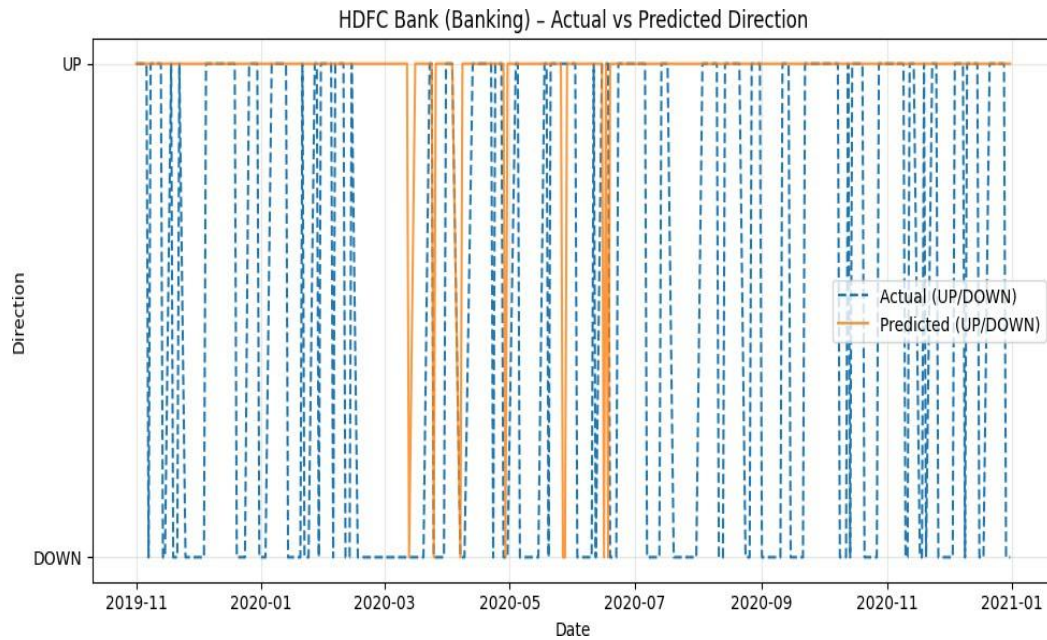


- **Figure 10. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

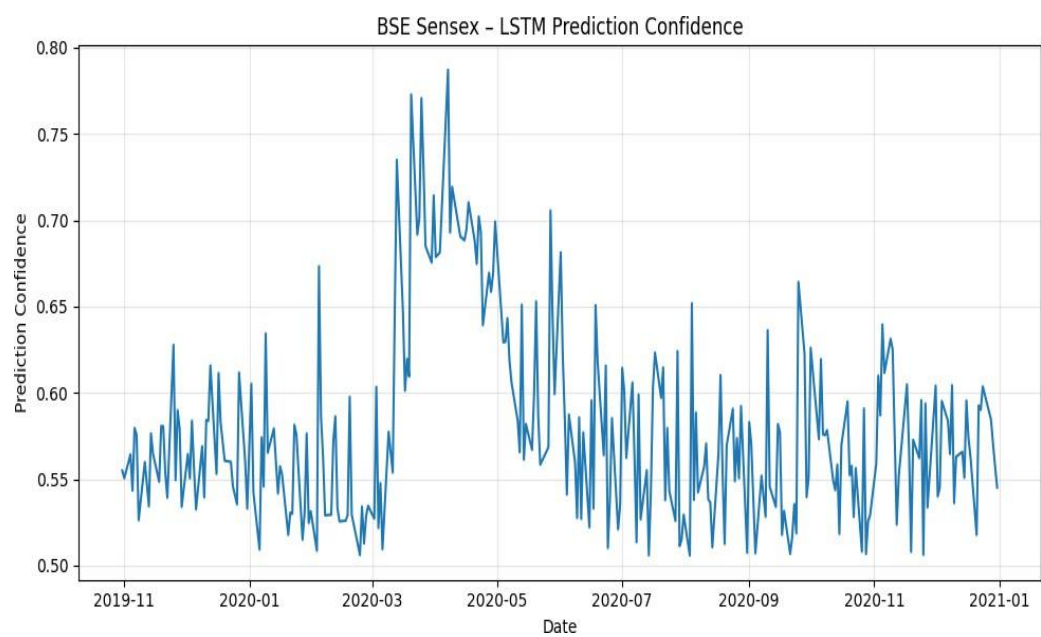




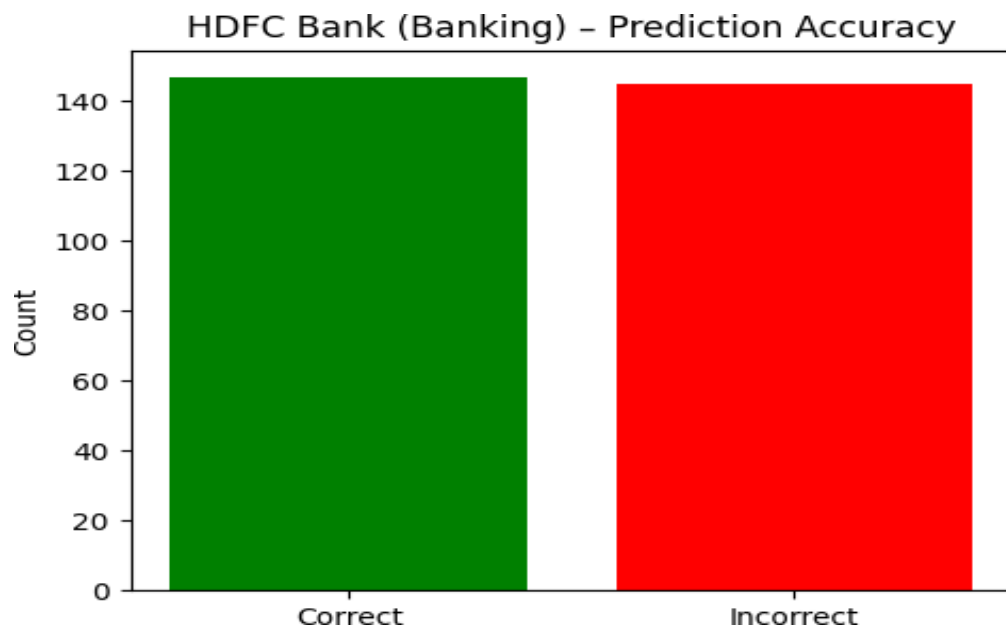
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **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.

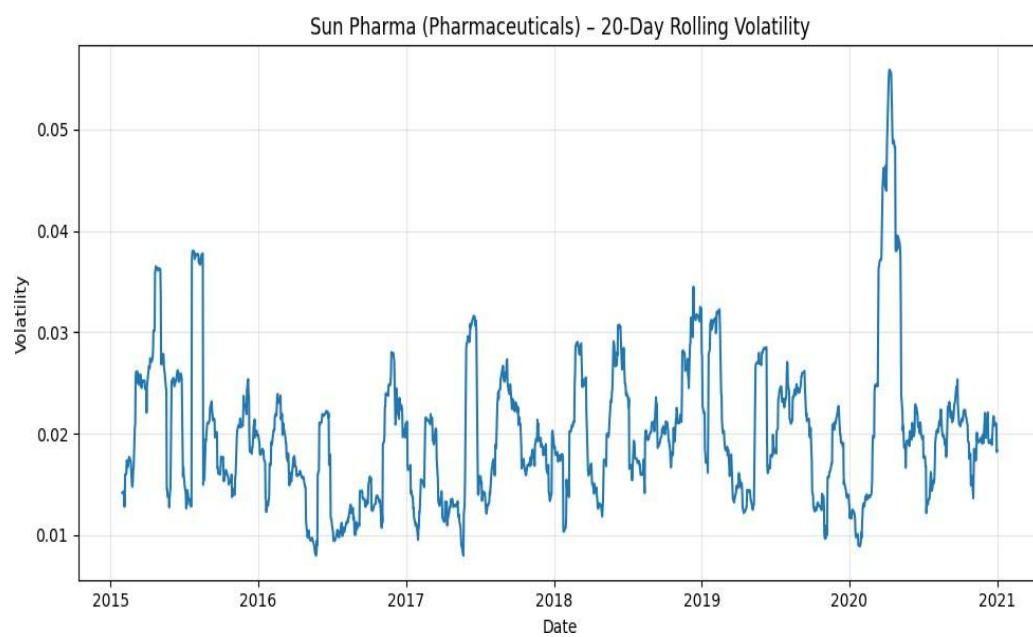


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

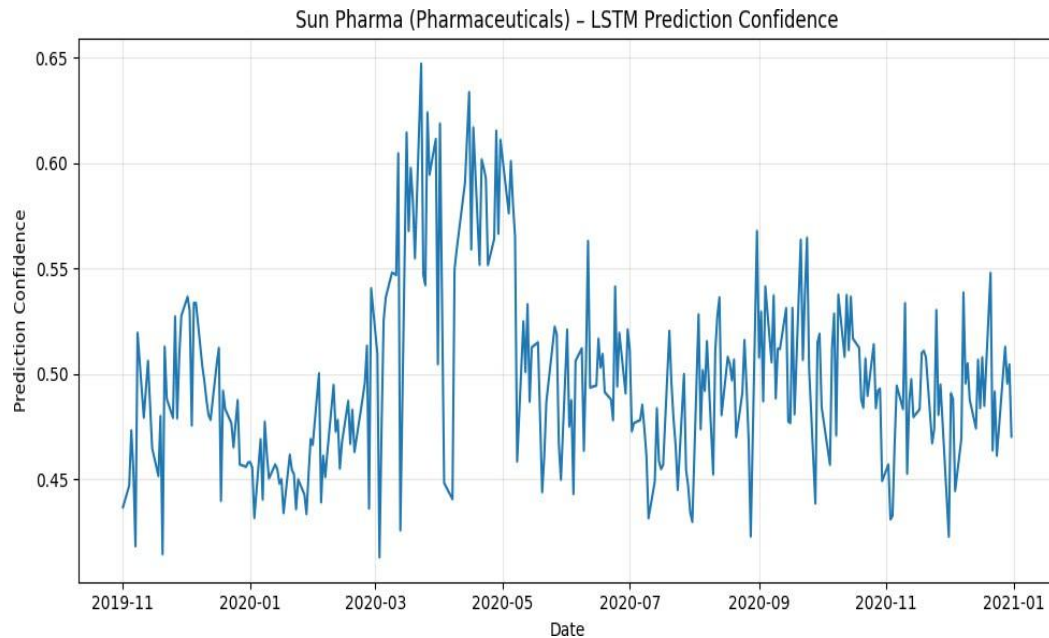


- **Figure 14.** Model Output Visualization

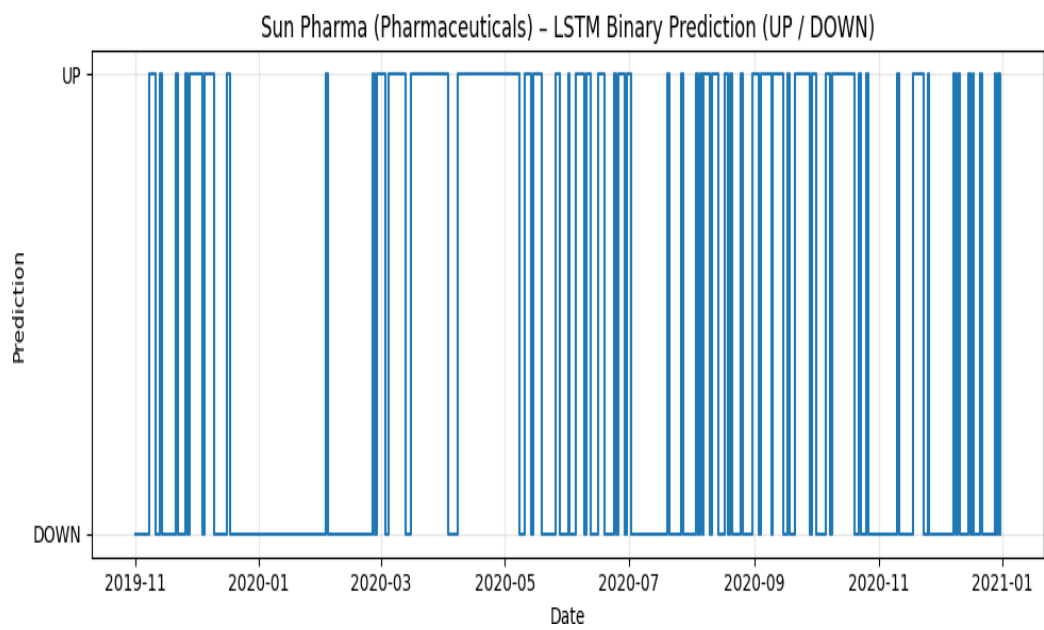
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



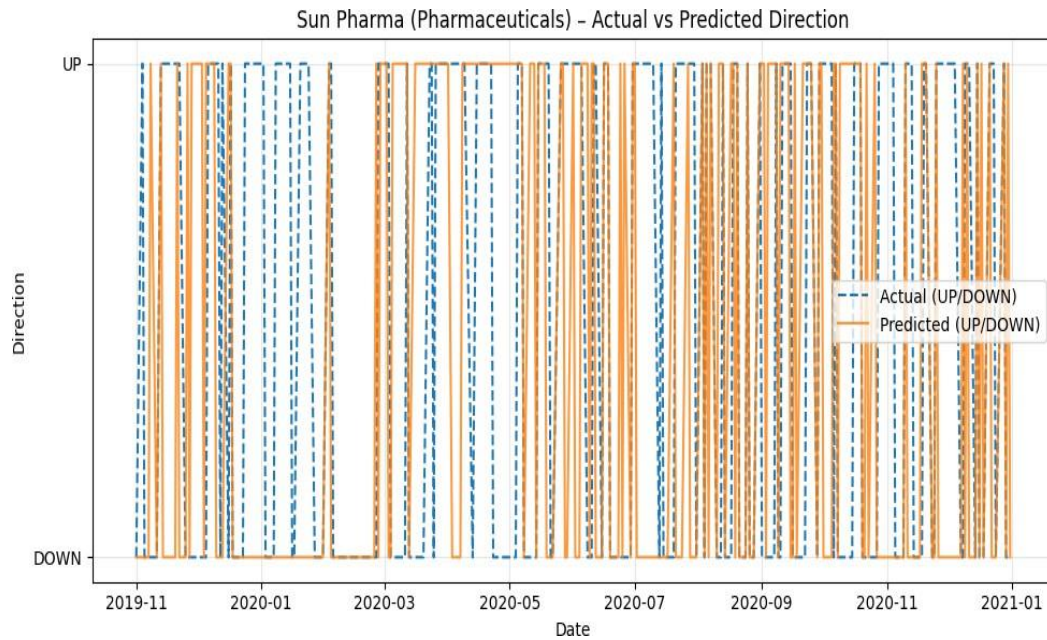
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **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.

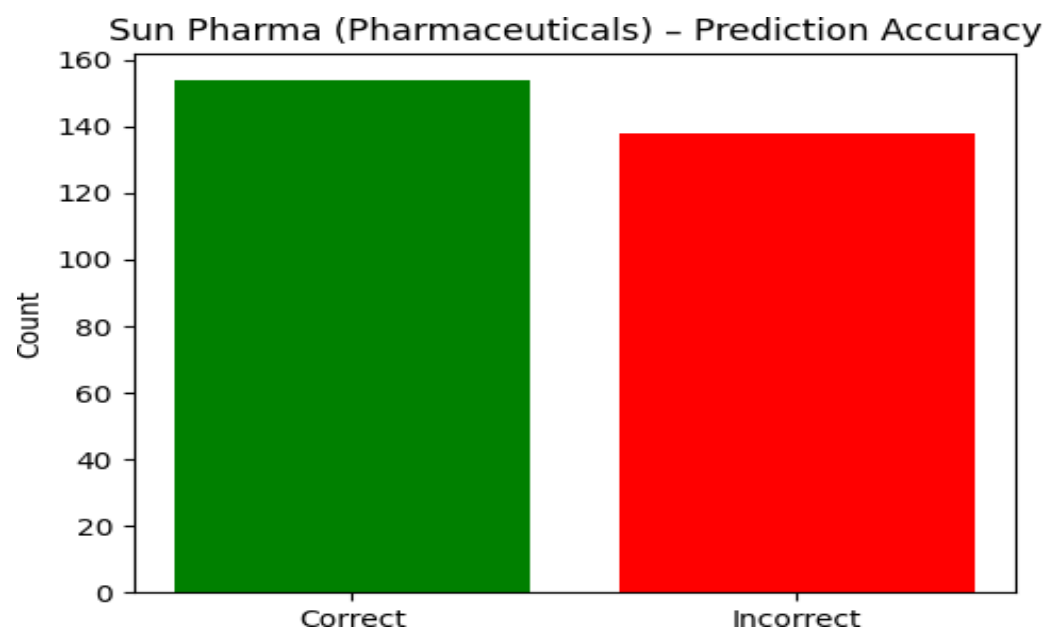


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

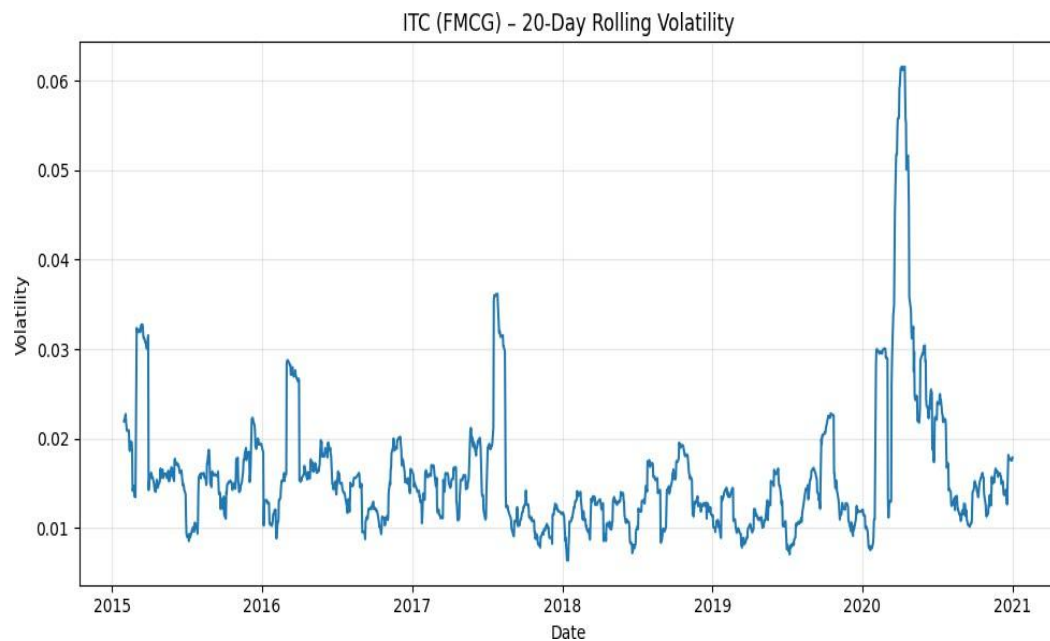


- **Figure 18. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



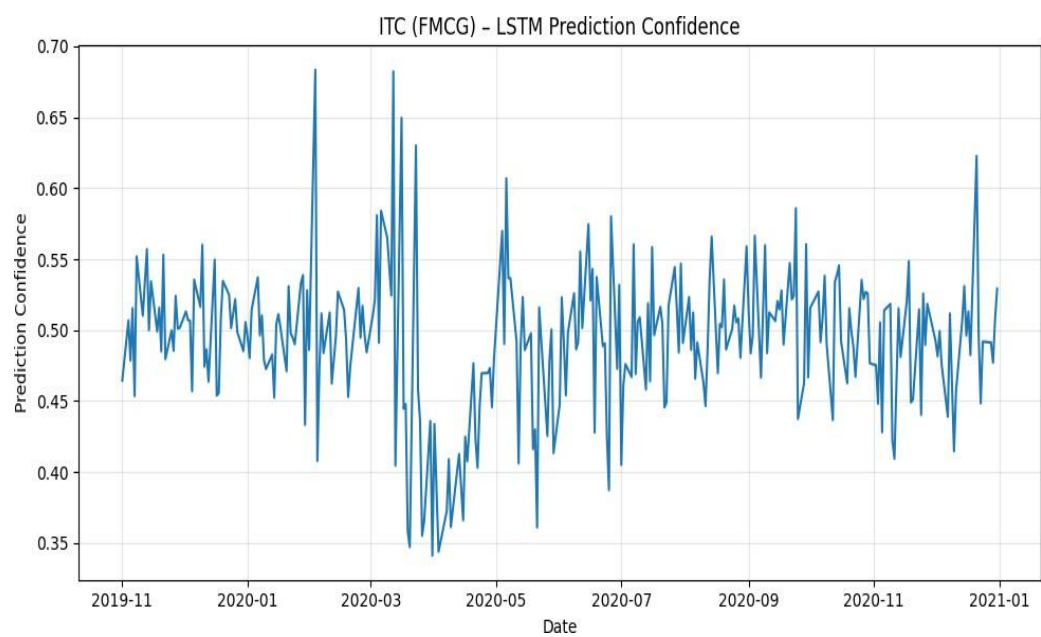


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

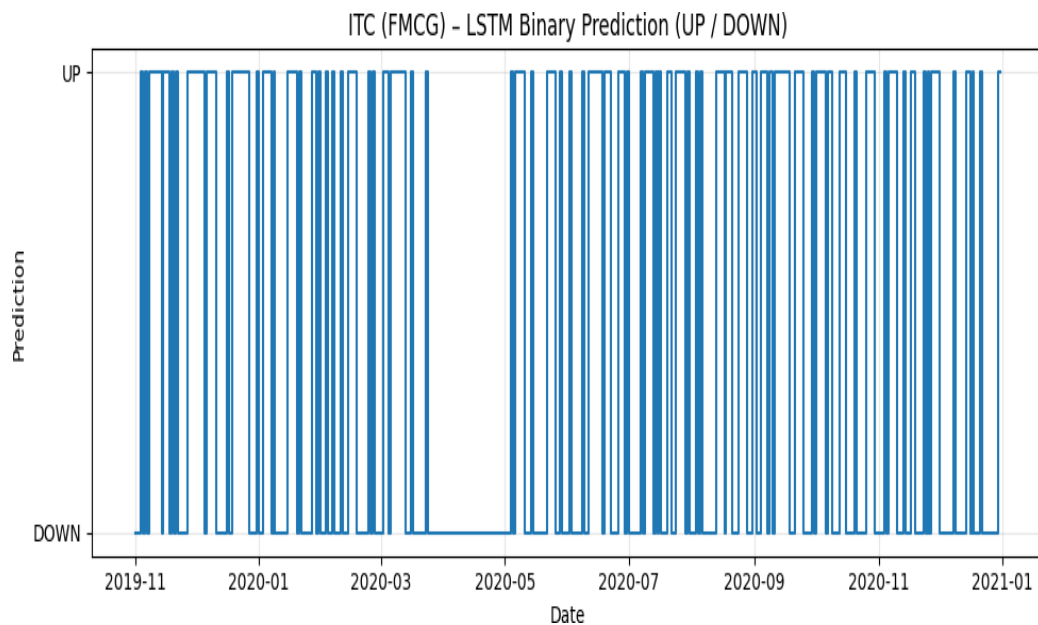


- **Figure 20. Model Output Visualization**

- 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.

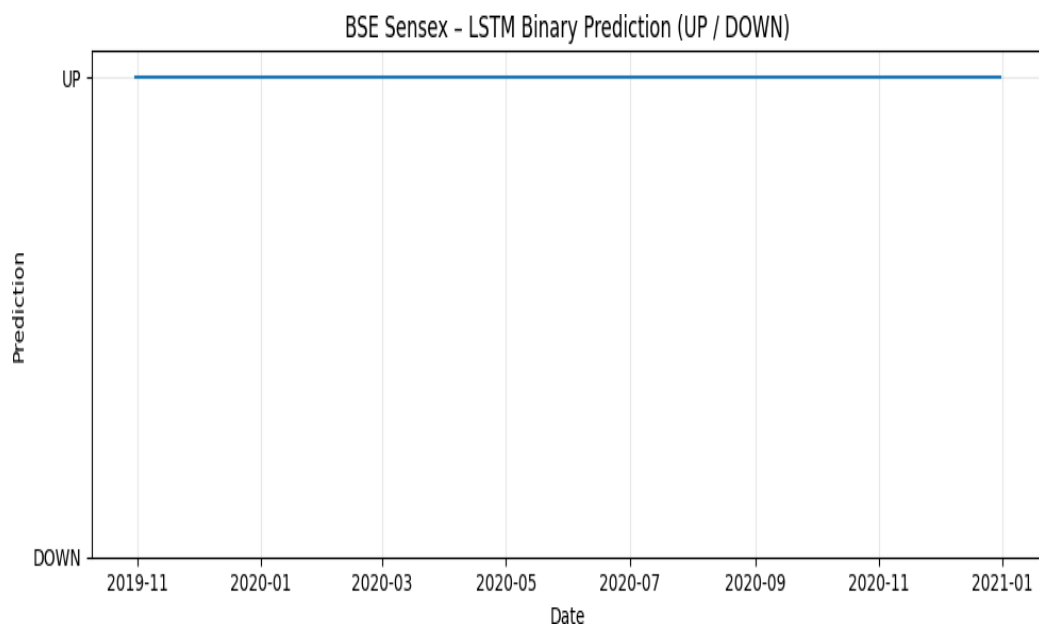


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

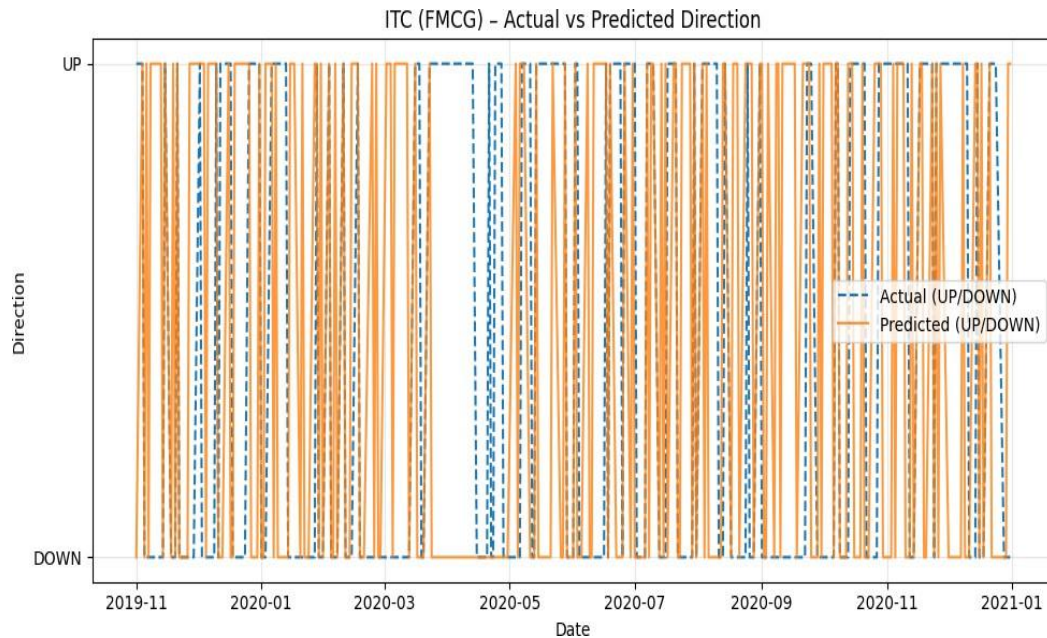


- **Figure 22. Model Output Visualization**

- 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.

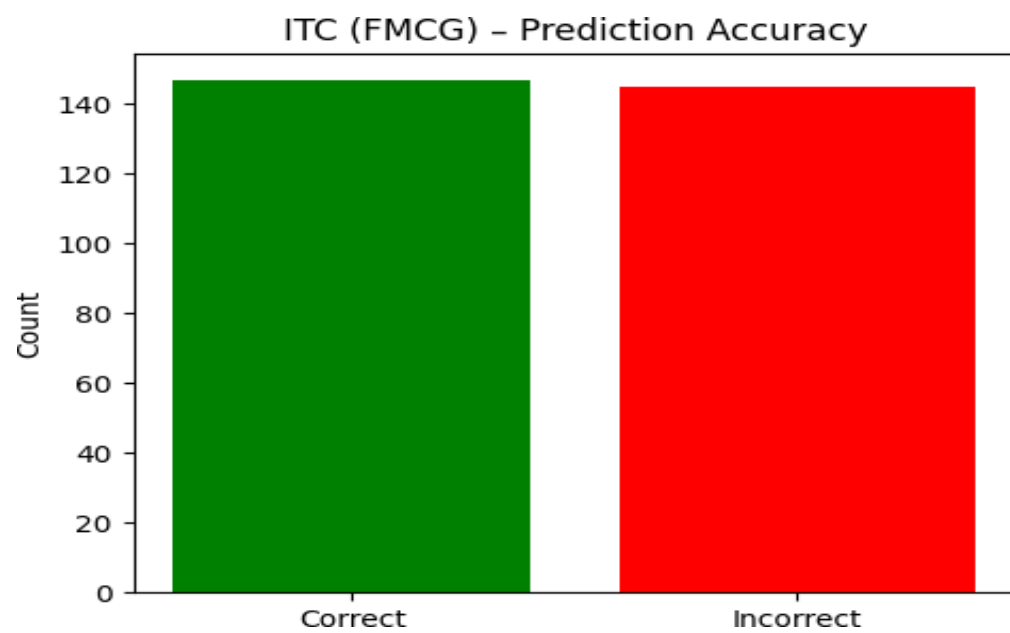


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

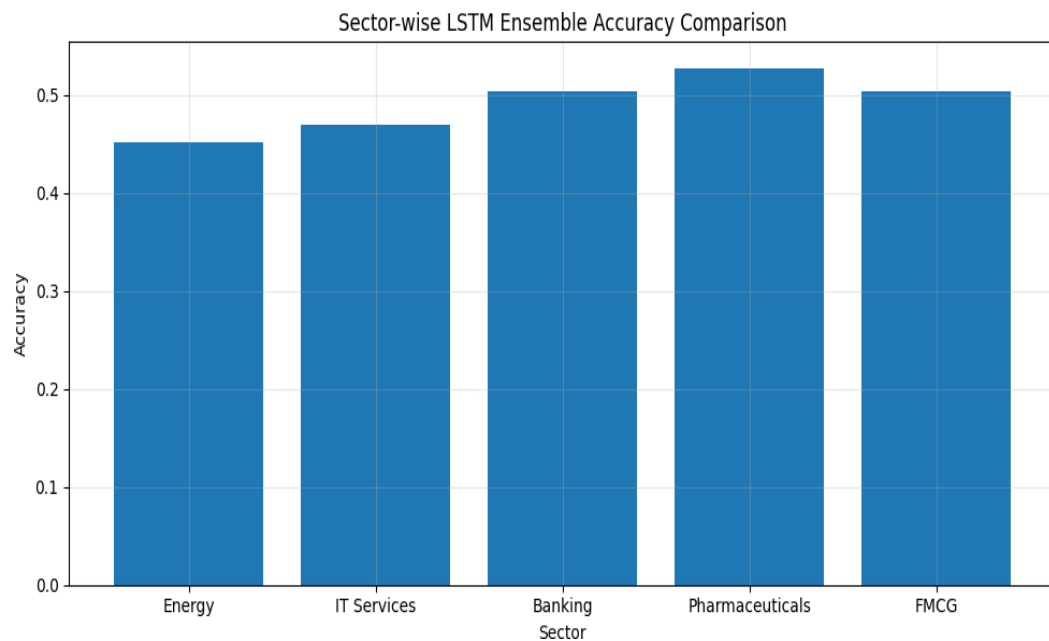


- **Figure 24. Model Output Visualization**

- 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.



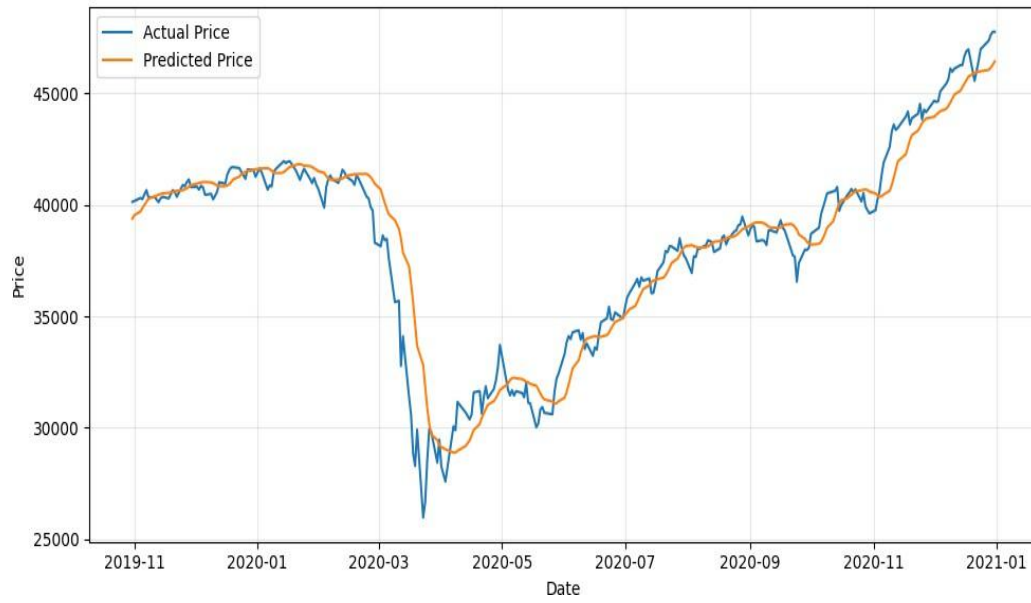
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



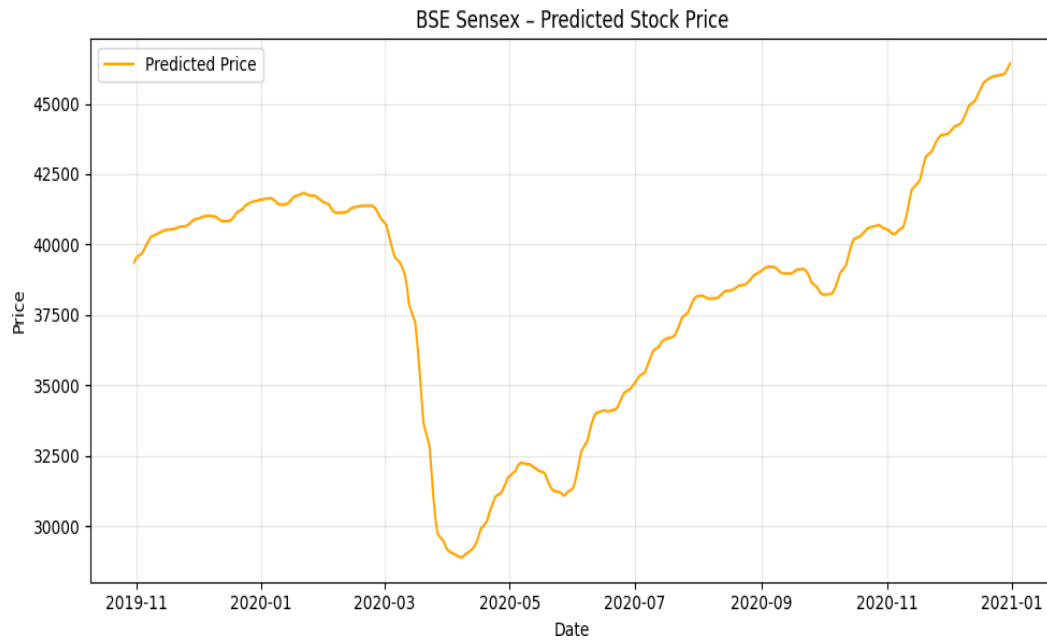
- **Figure 26. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



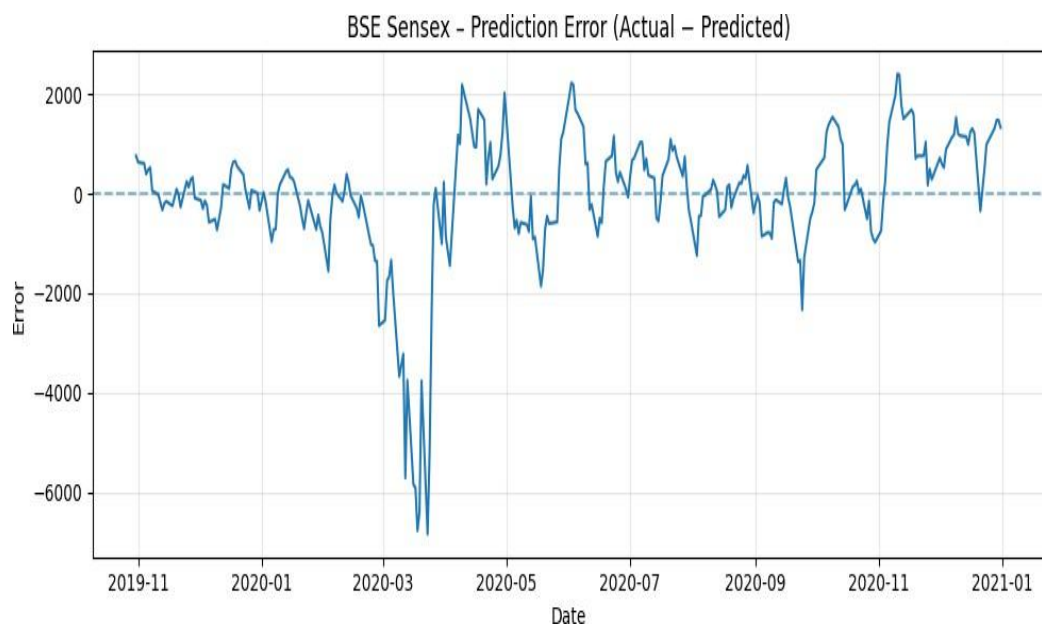
BSE Sensex - Actual vs Predicted Stock Price



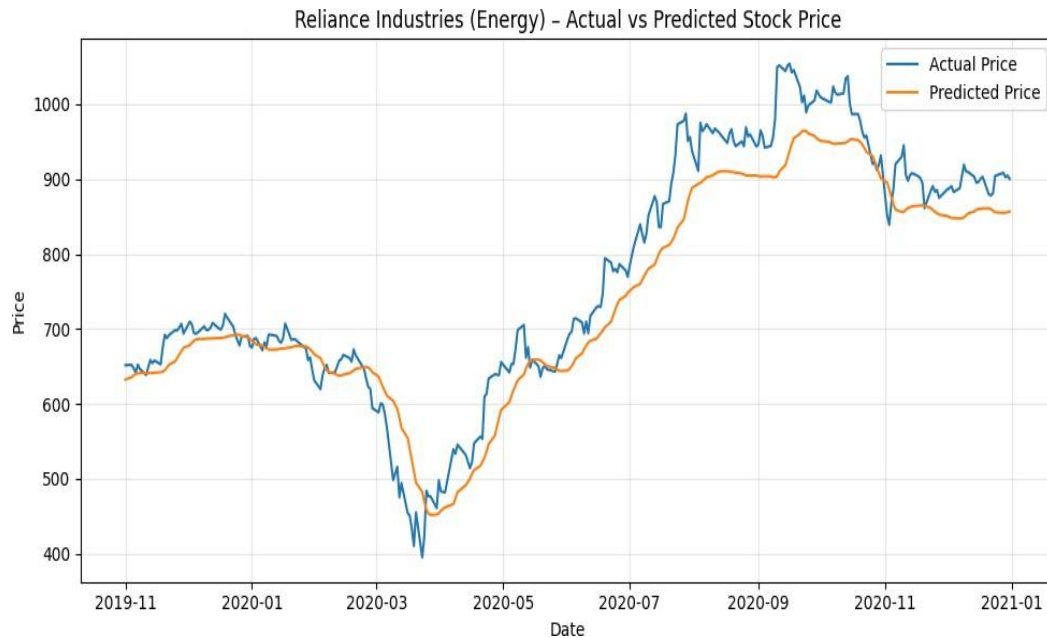
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



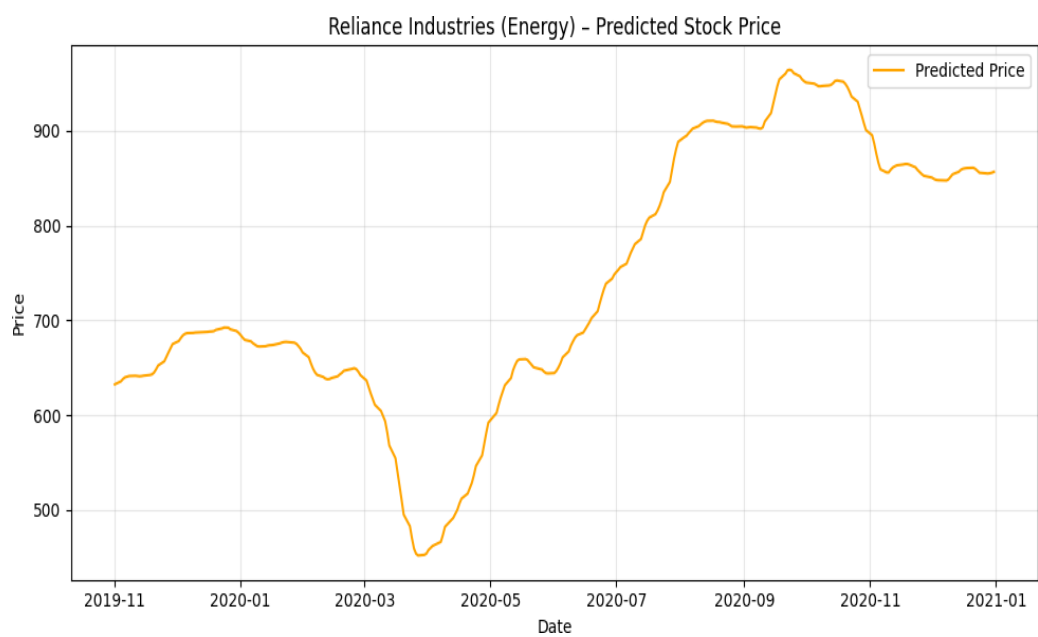
- **Figure 28. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



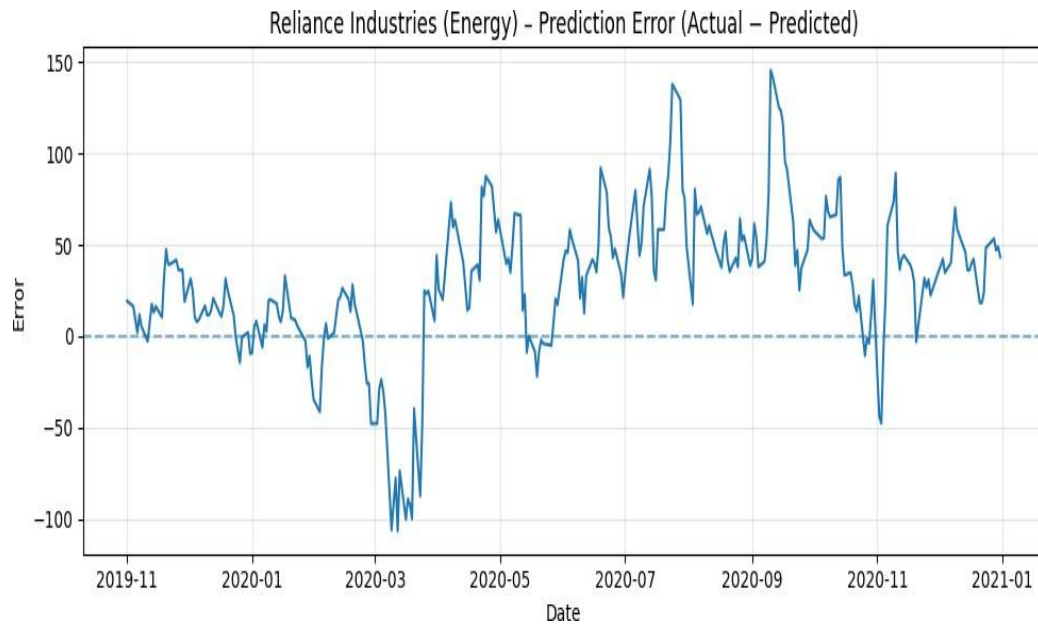
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **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.



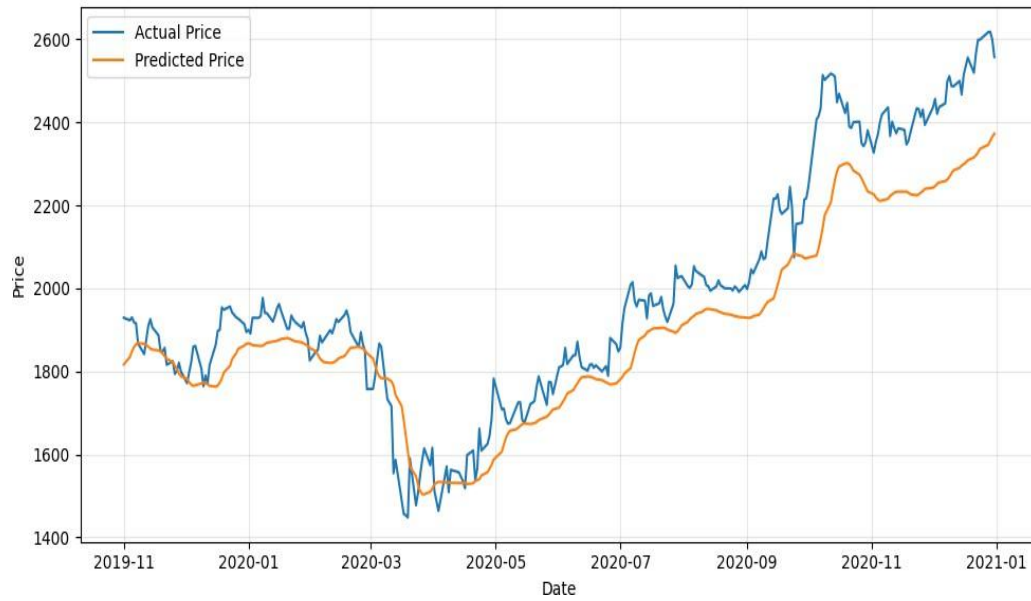
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



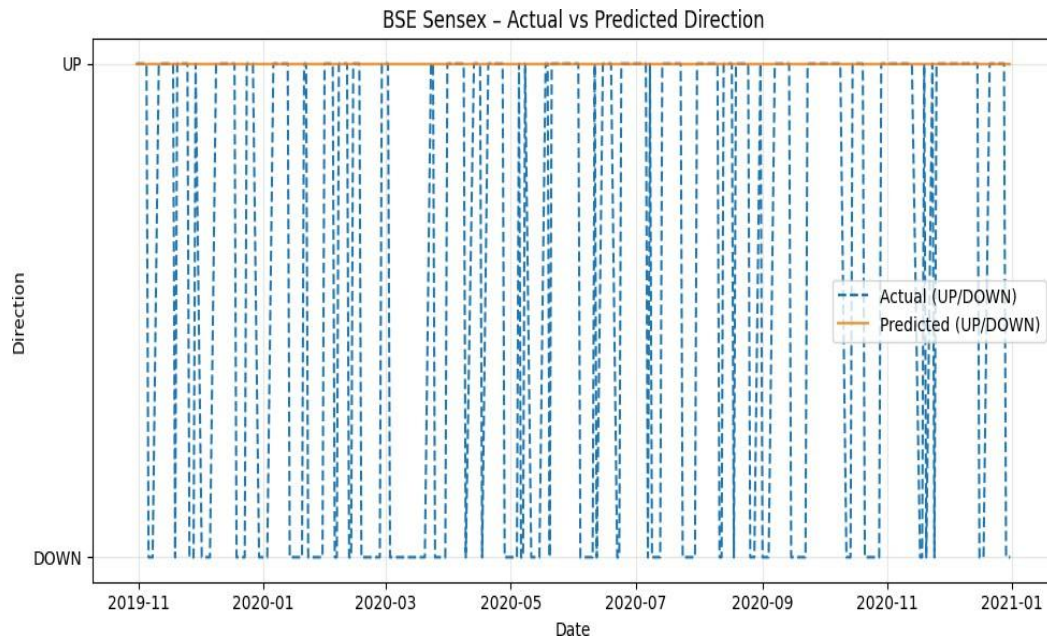
- **Figure 32. Model Output Visualization**

- 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.

TCS (IT Services) - Actual vs Predicted Stock Price

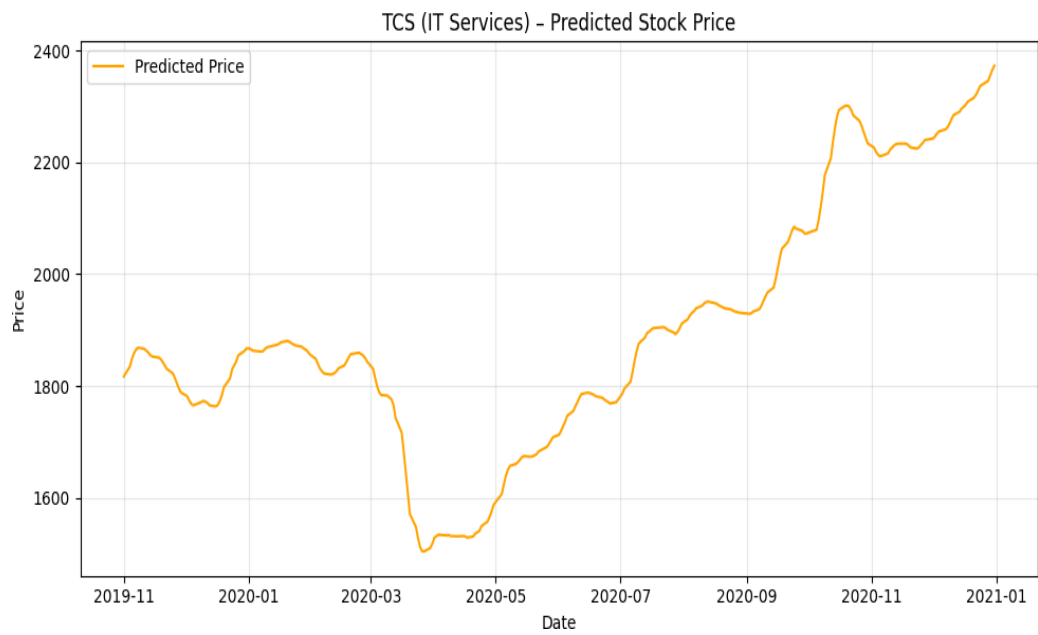


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

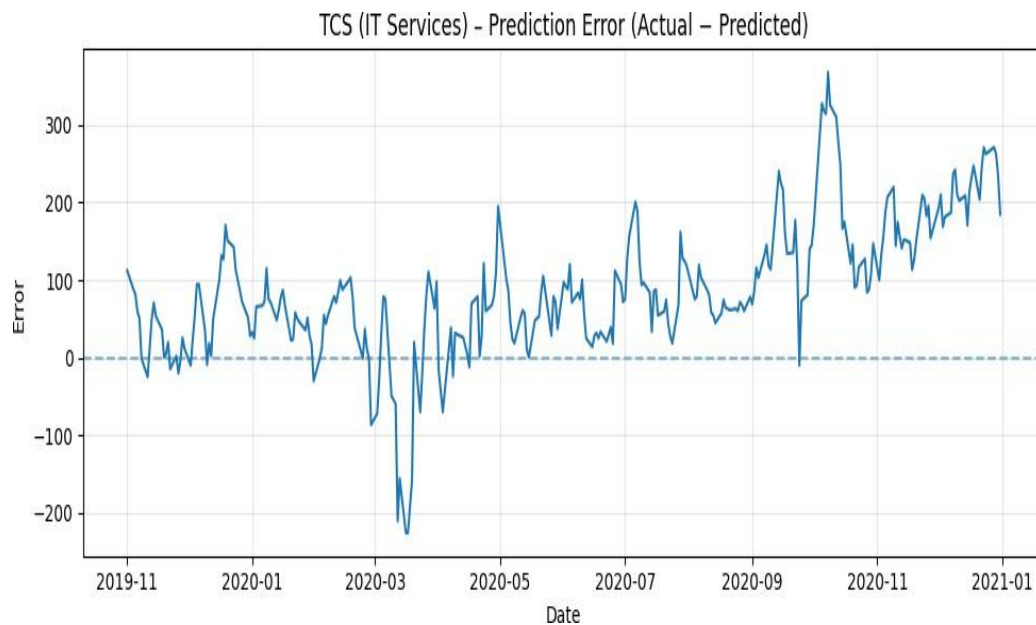


- **Figure 34. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.





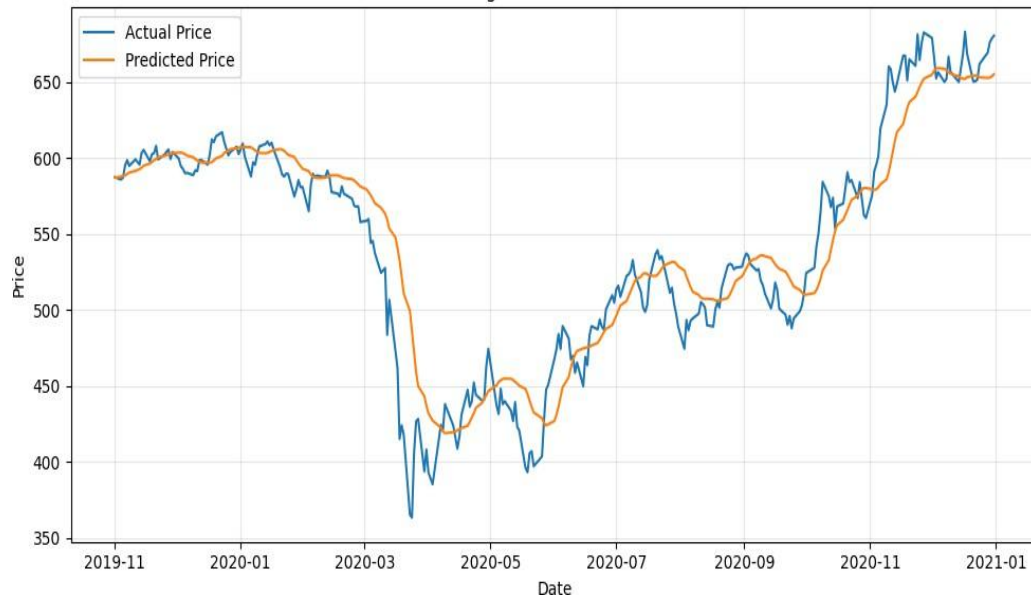
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



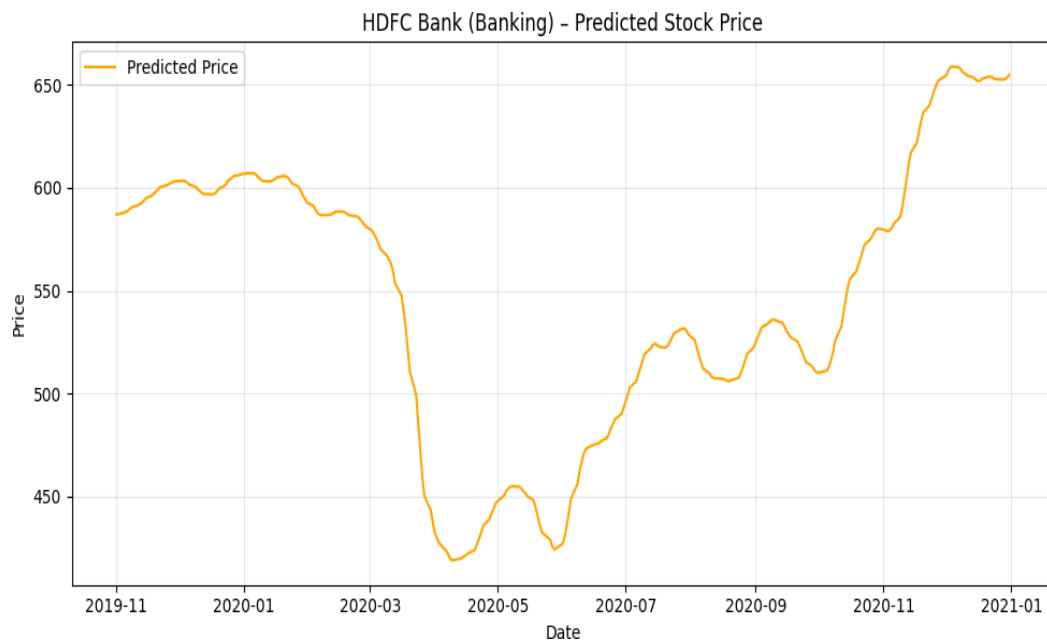
- **Figure 36. Model Output Visualization**

- 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.

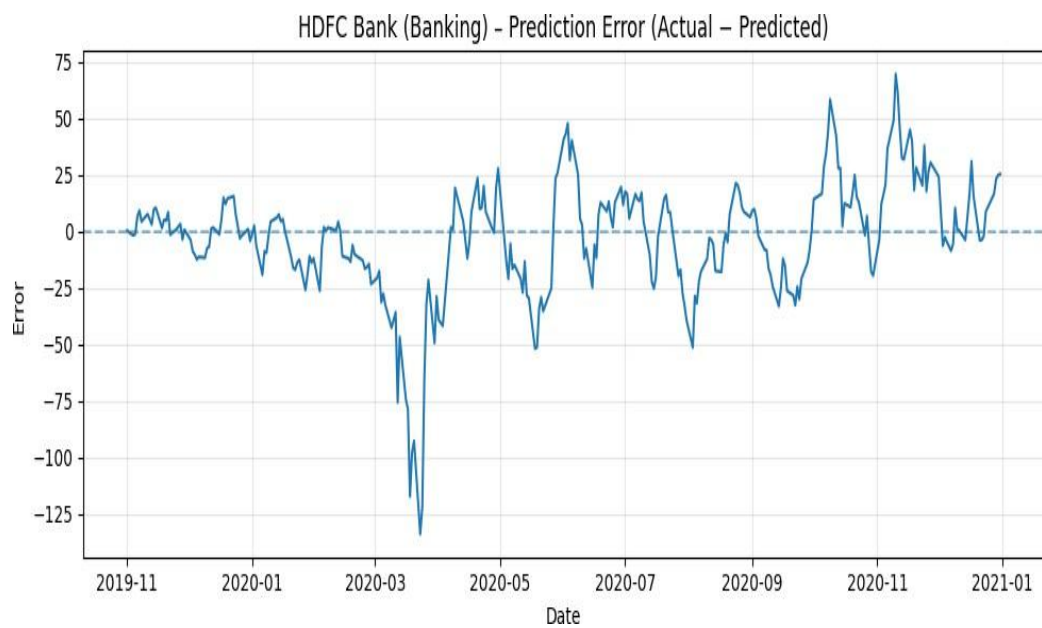
HDFC Bank (Banking) - Actual vs Predicted Stock Price



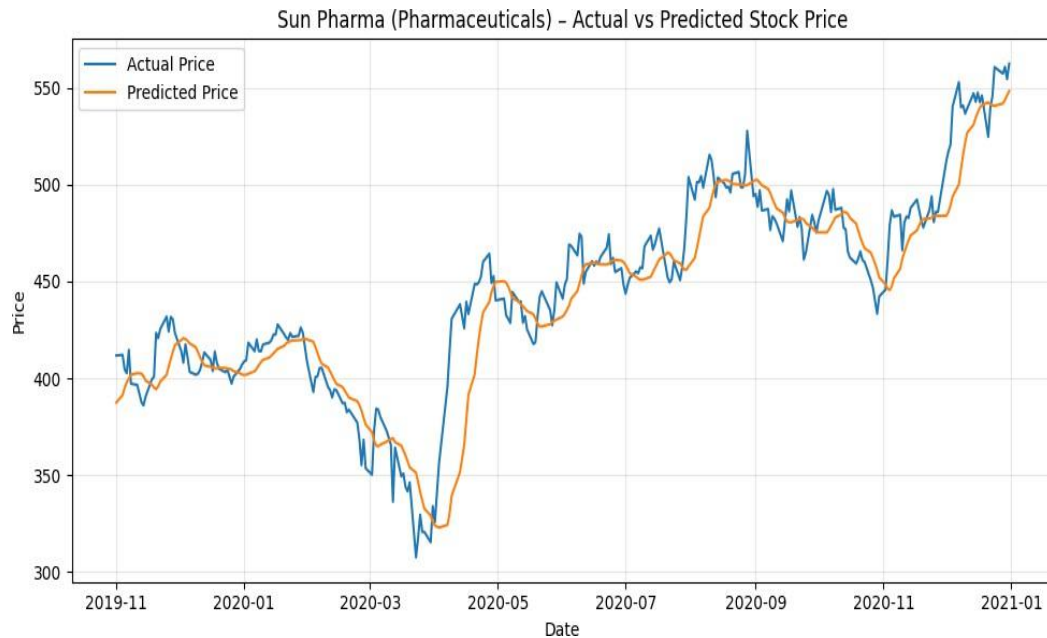
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



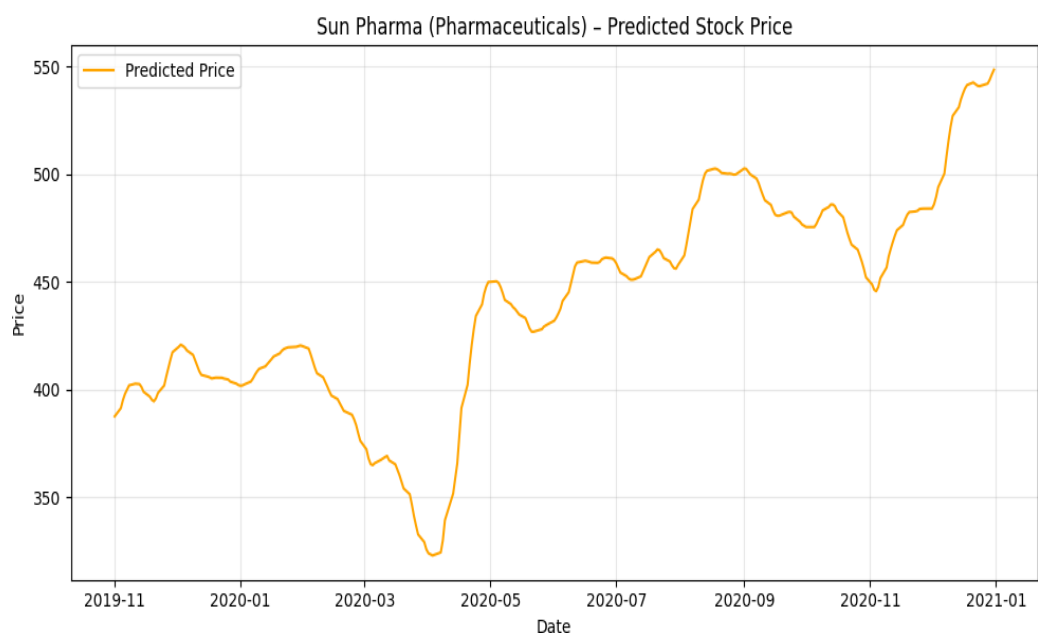
- **Figure 38. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



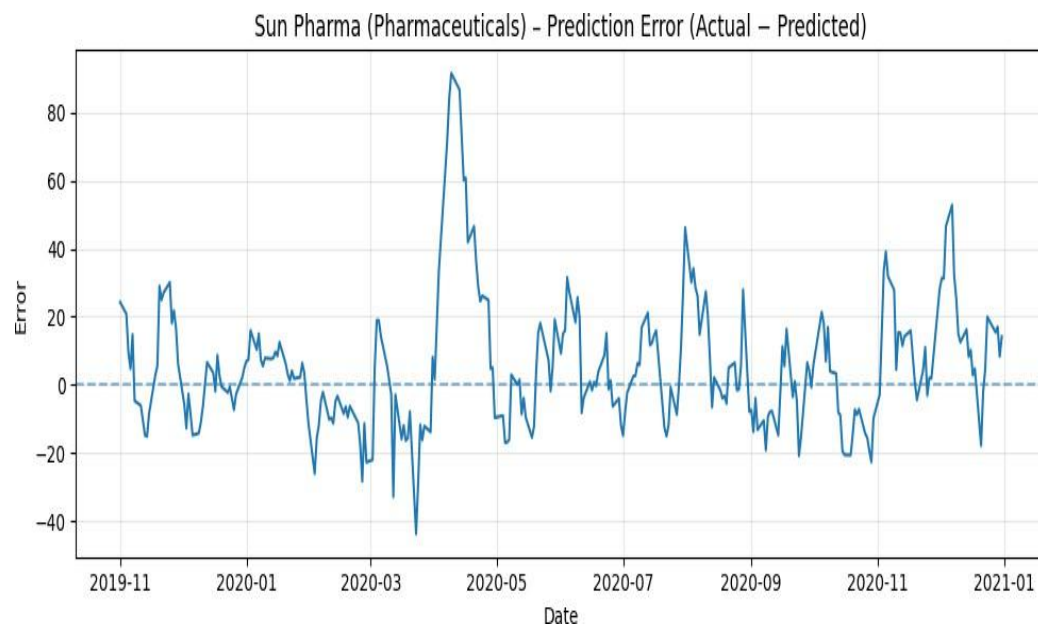
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **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.



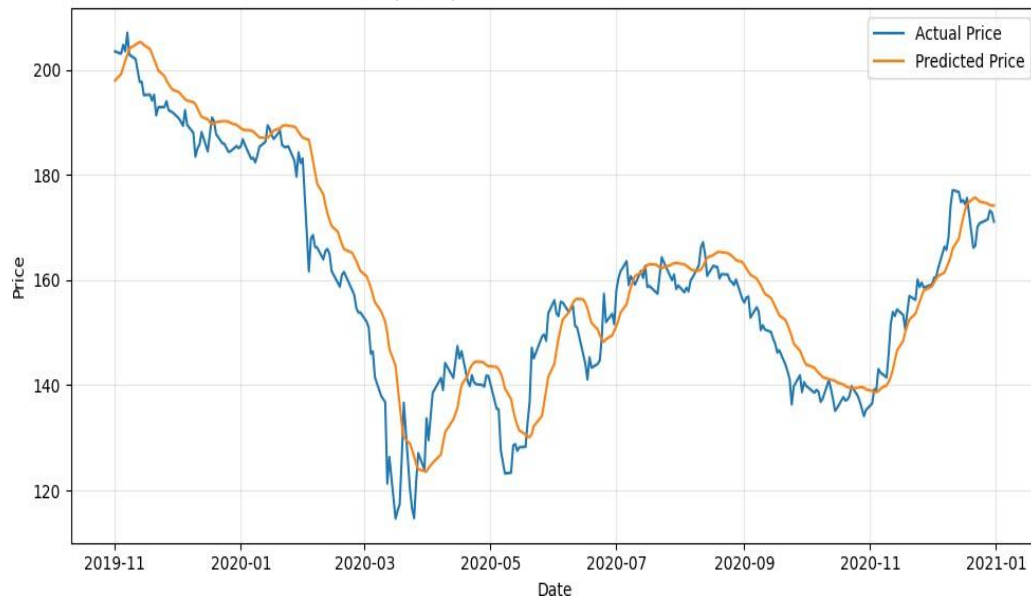
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



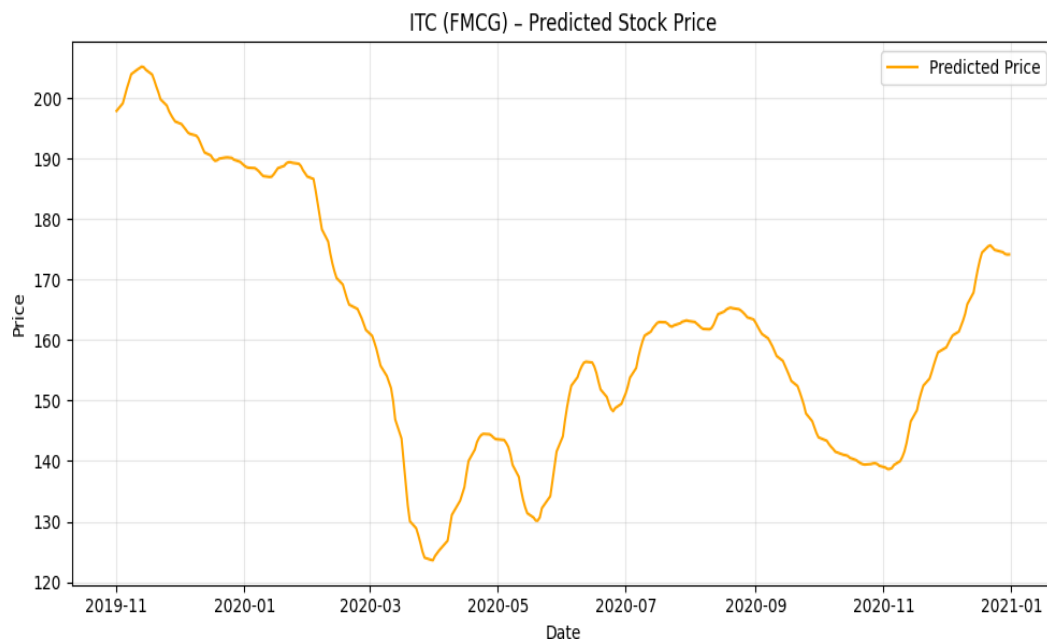
- **Figure 42. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



ITC (FMCG) - Actual vs Predicted Stock Price

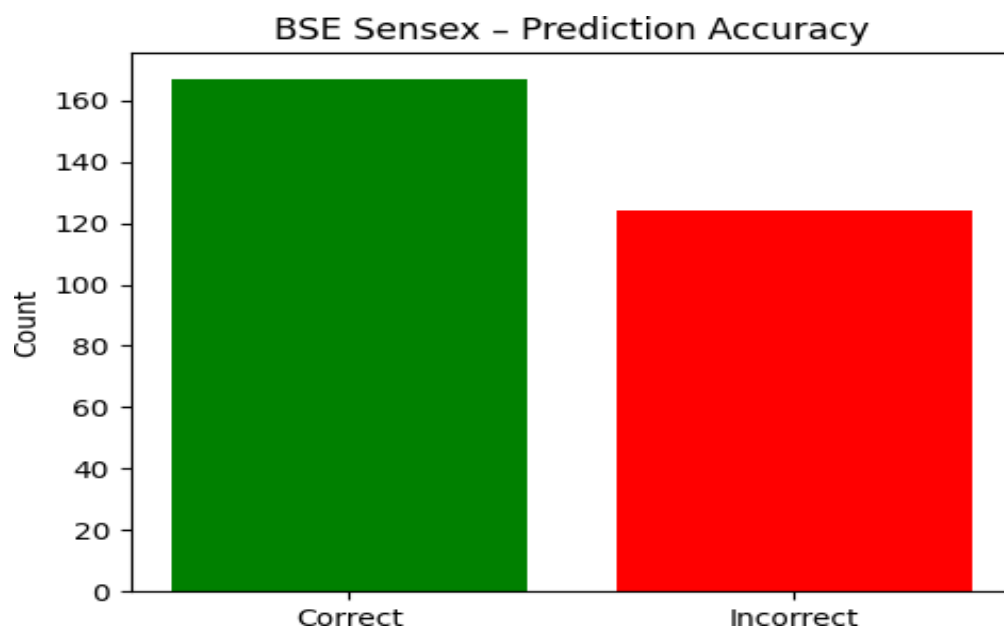


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

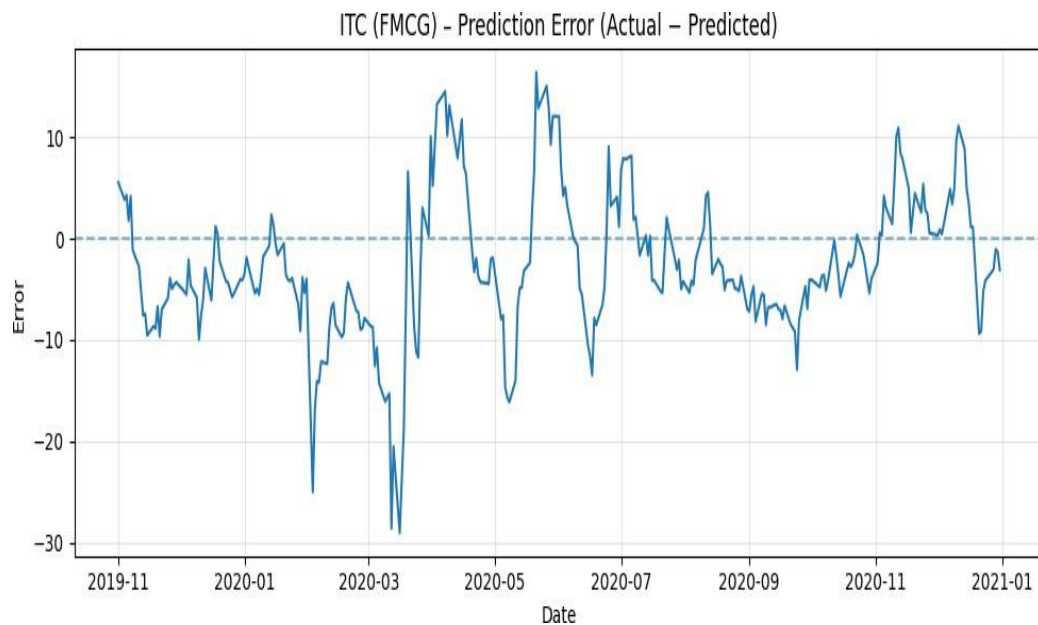


• **Figure 44. Model Output Visualization**

- 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.



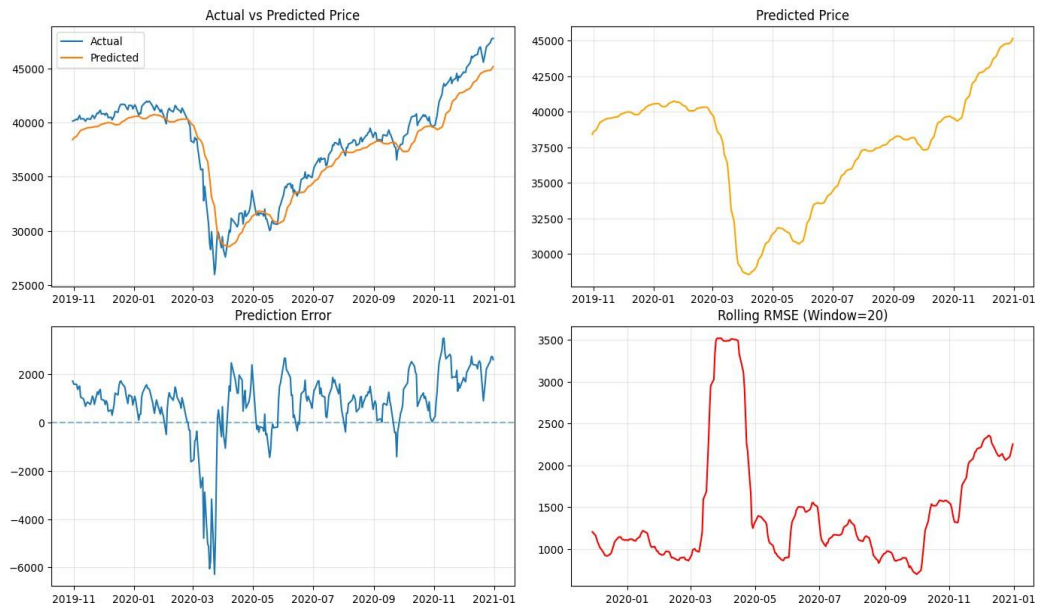
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



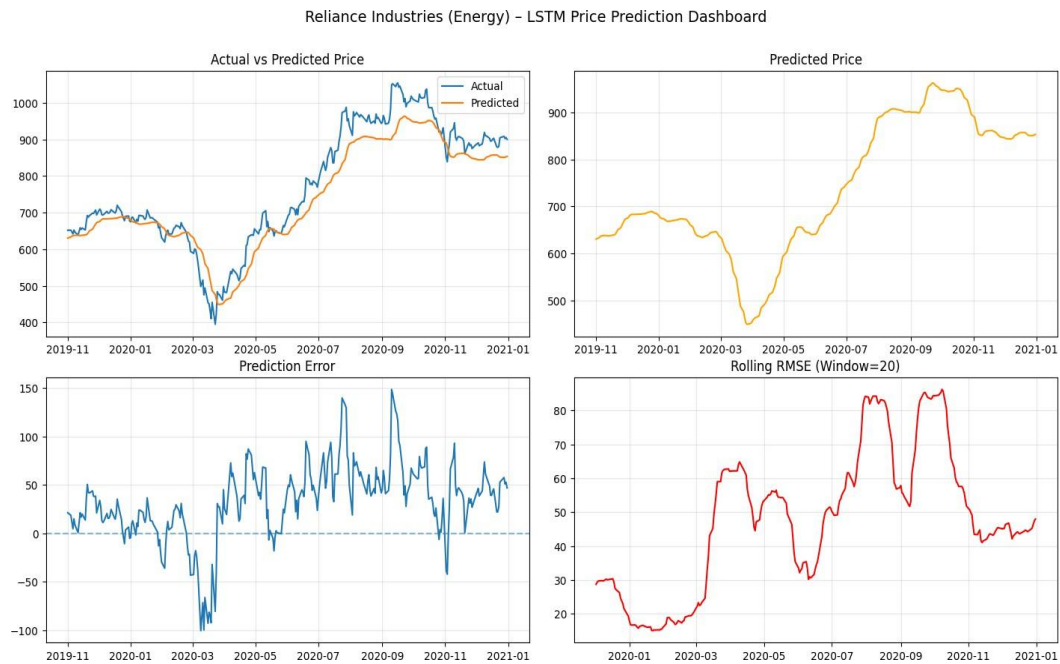
- **Figure 46. Model Output Visualization**

- 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



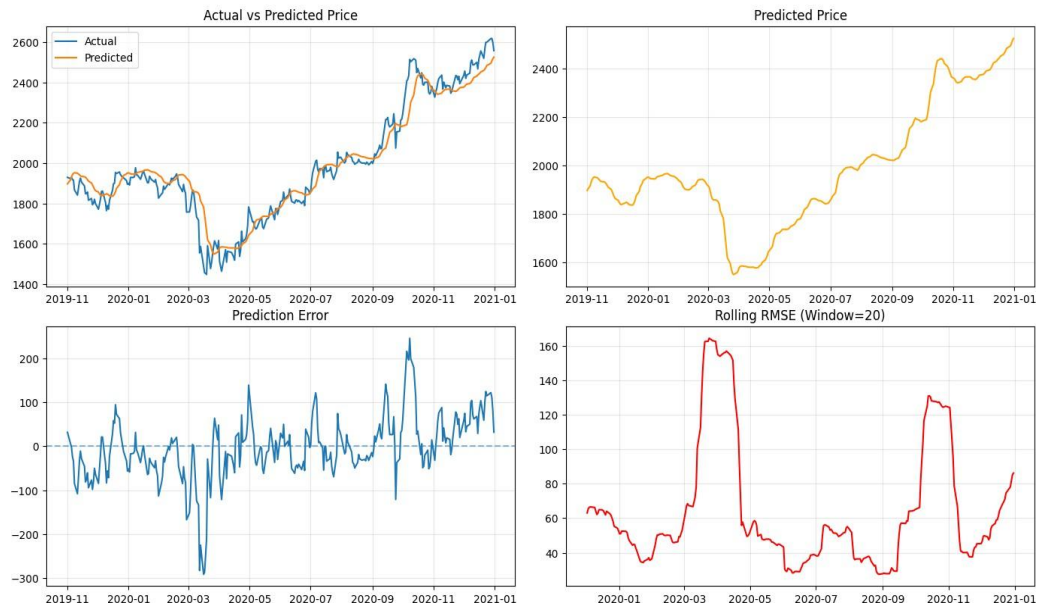
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



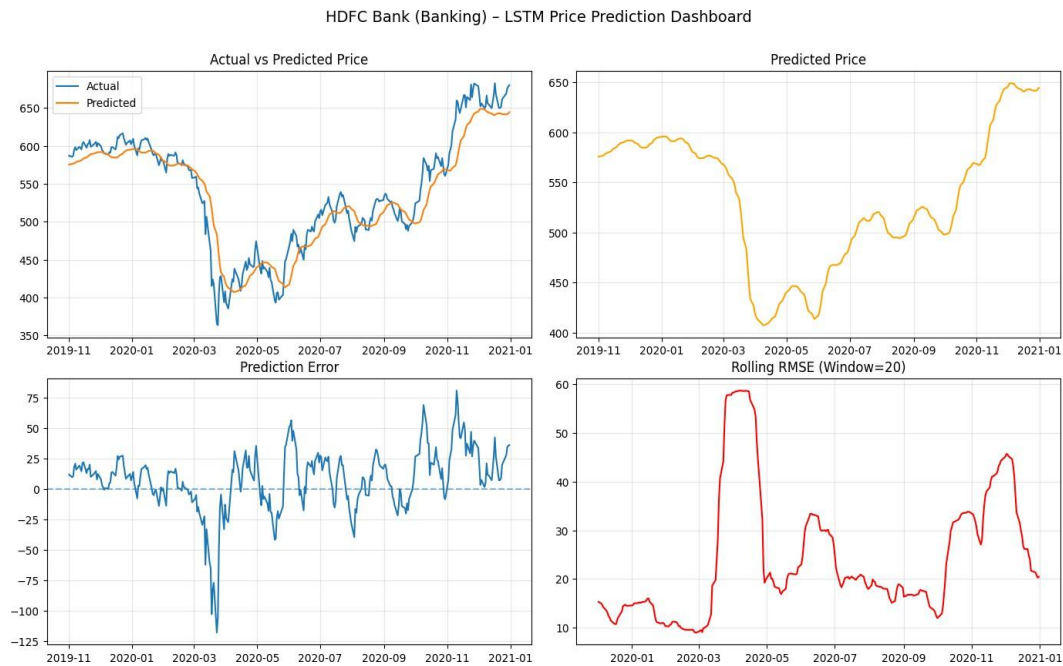
• **Figure 48. Model Output Visualization**

- 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



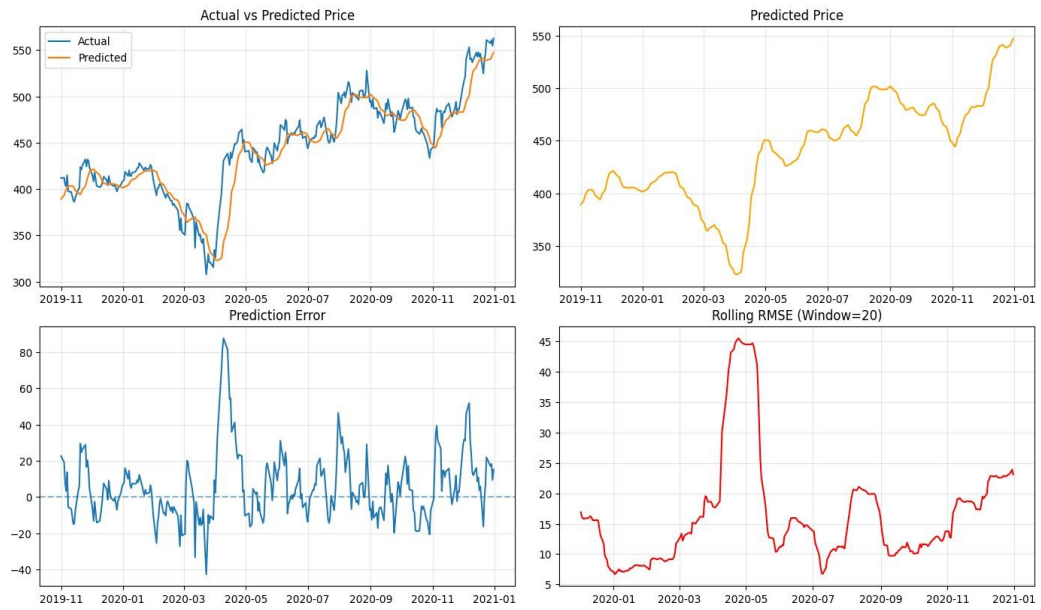
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 50. Model Output Visualization**

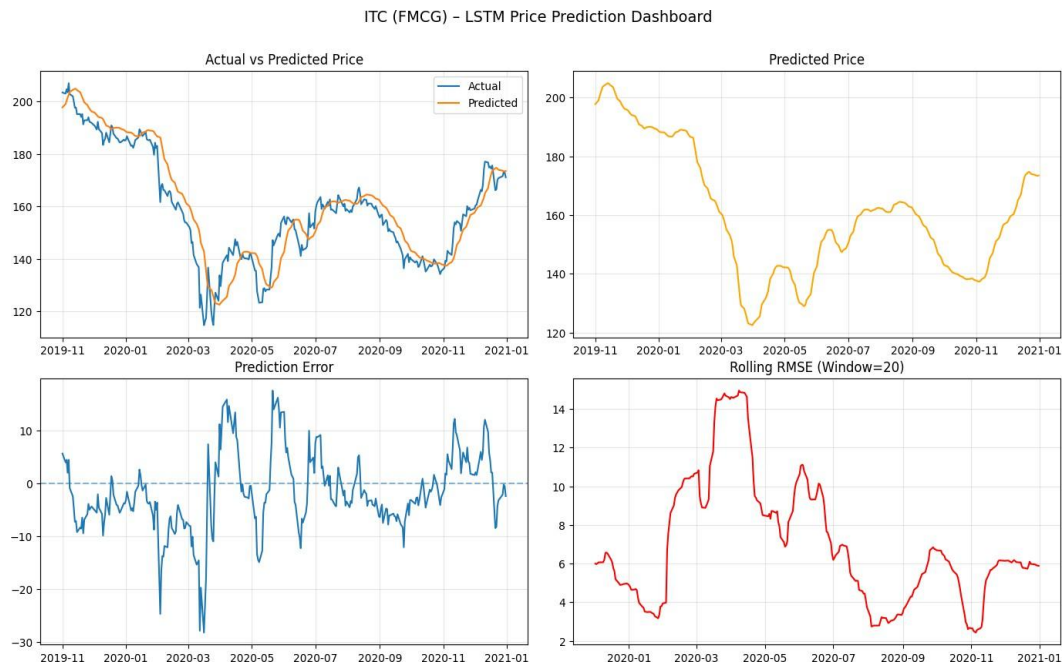
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

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



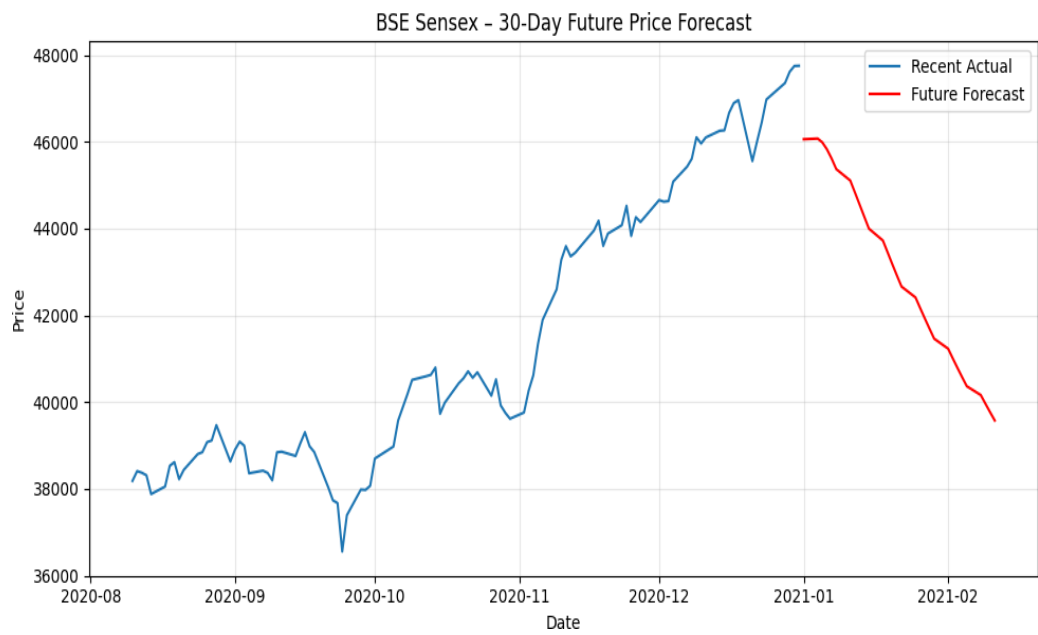


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

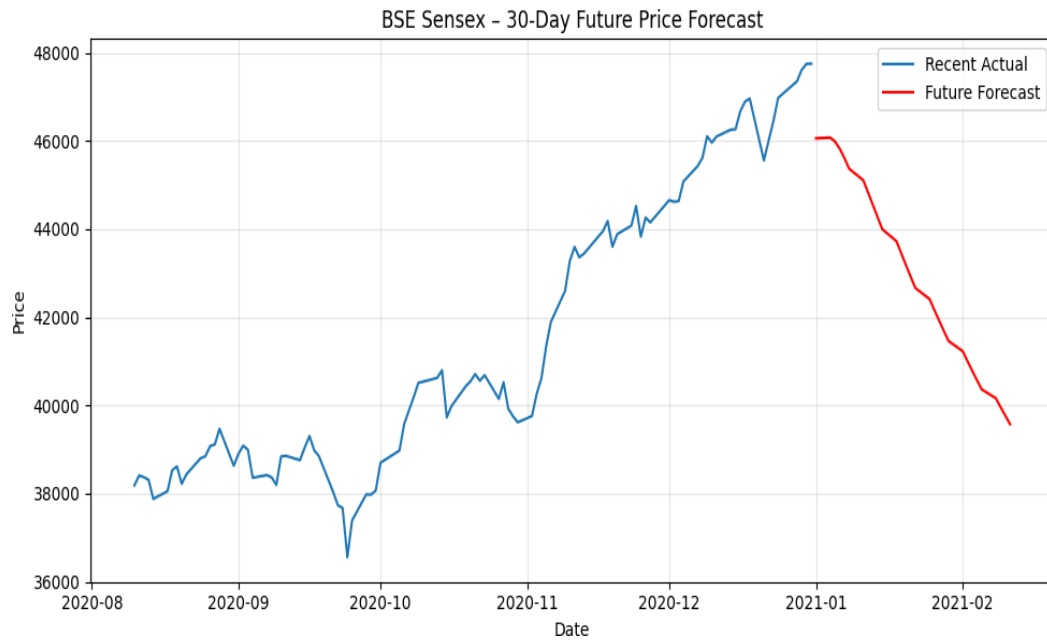


• **Figure 52. Model Output Visualization**

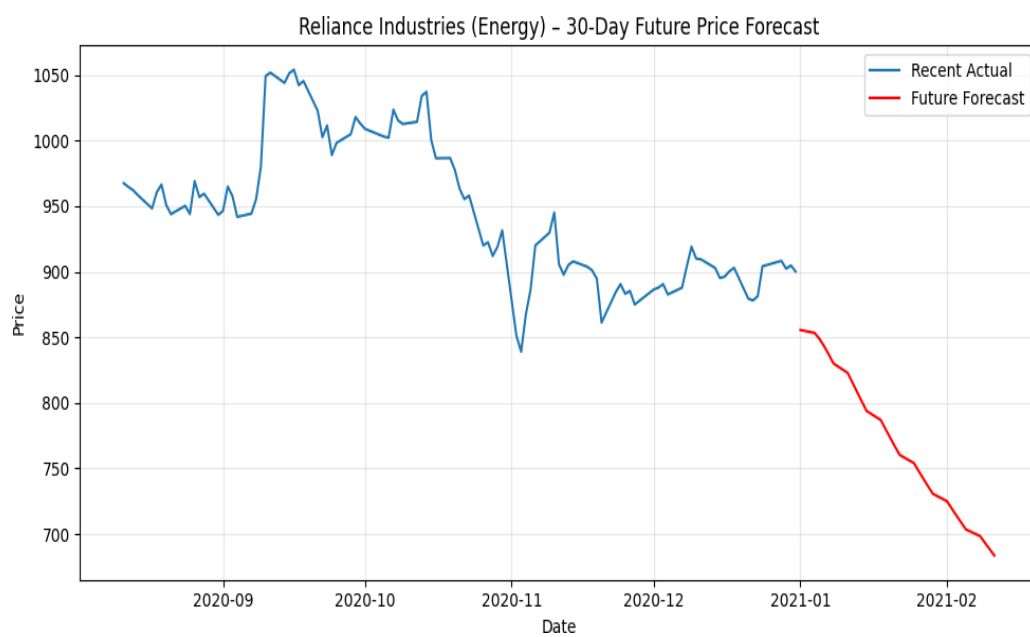
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



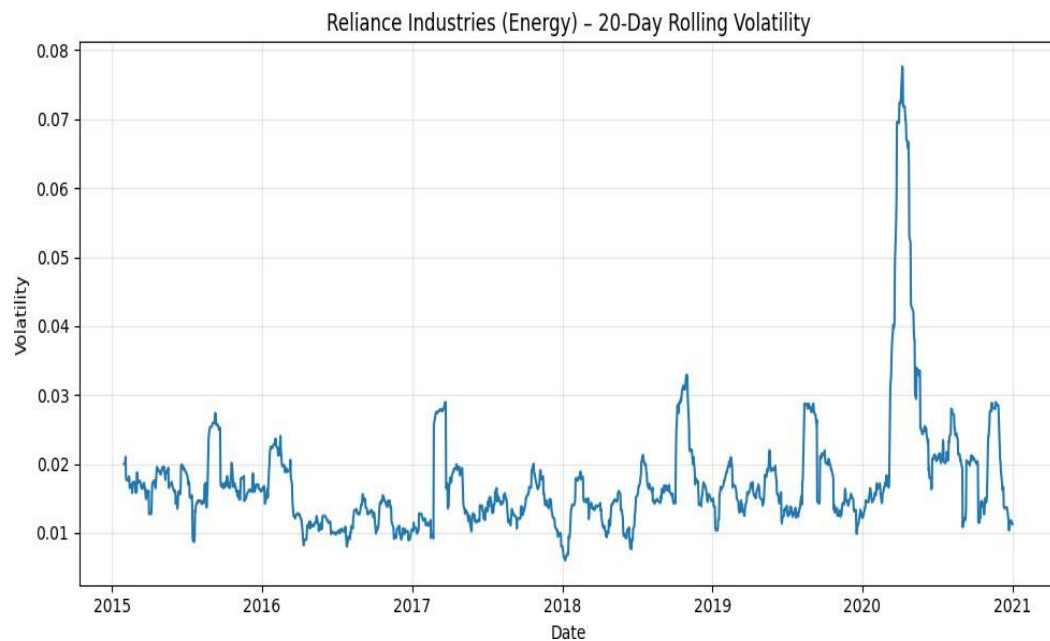
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



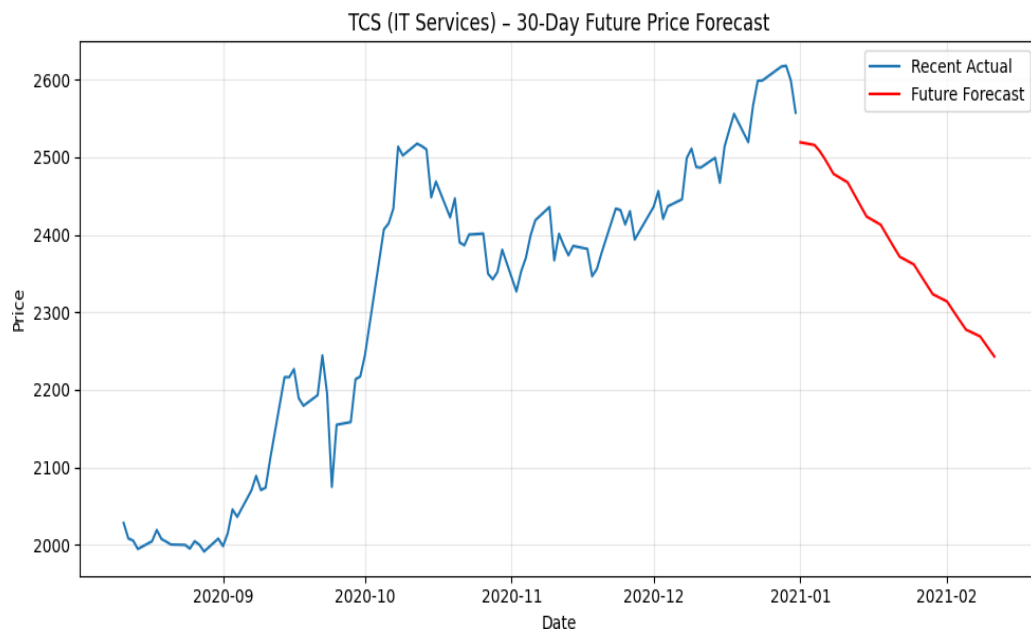
- **Figure 54. Model Output Visualization**
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



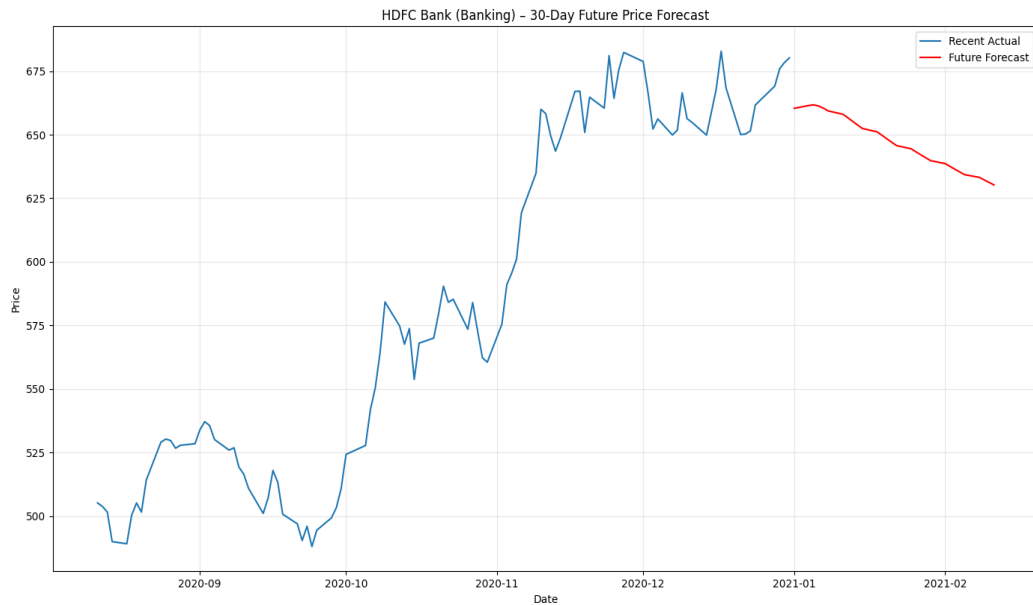
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **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**

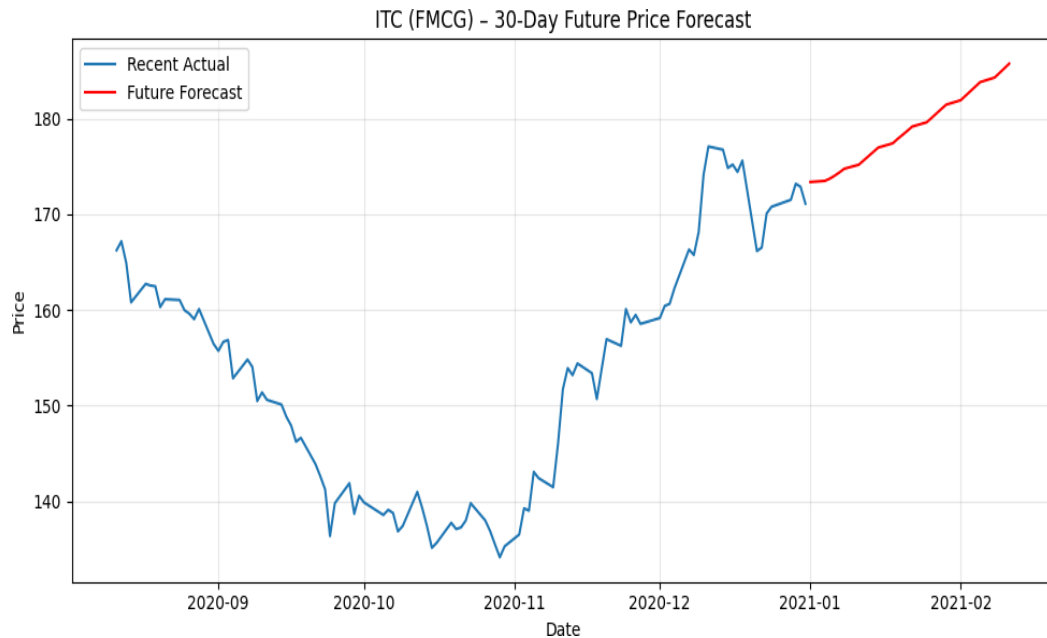
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

Sun Pharma (Pharmaceuticals) - 30-Day Future Price Forecast

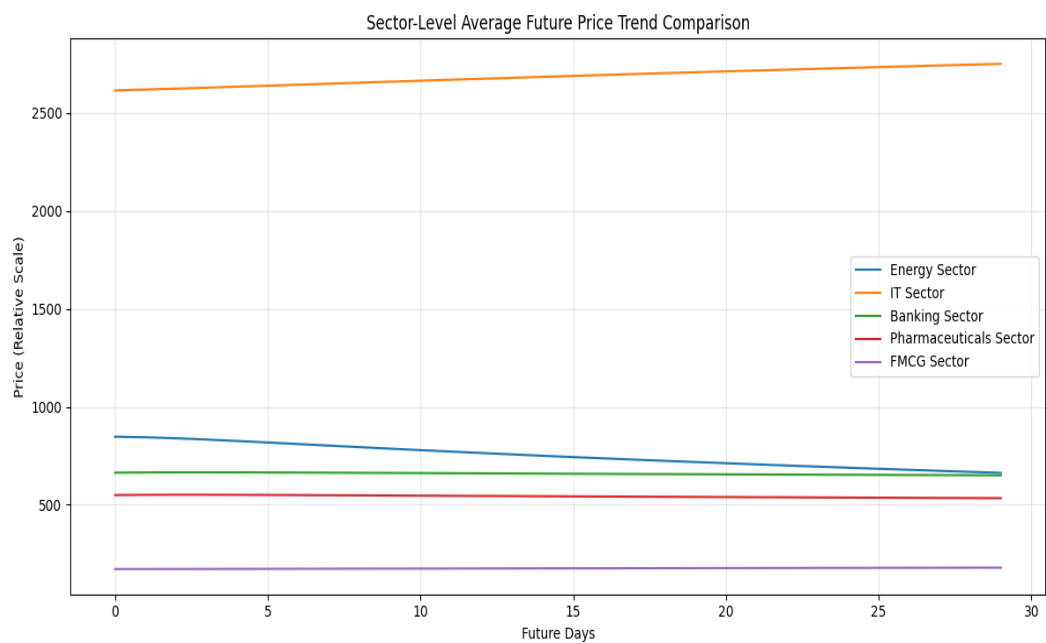




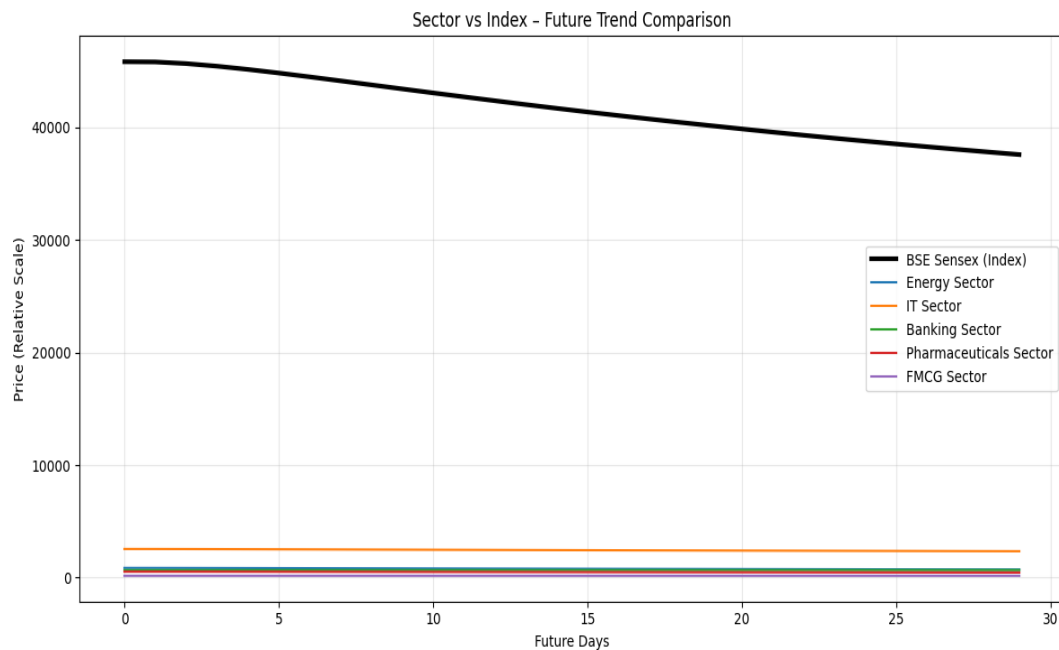
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **Figure 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.

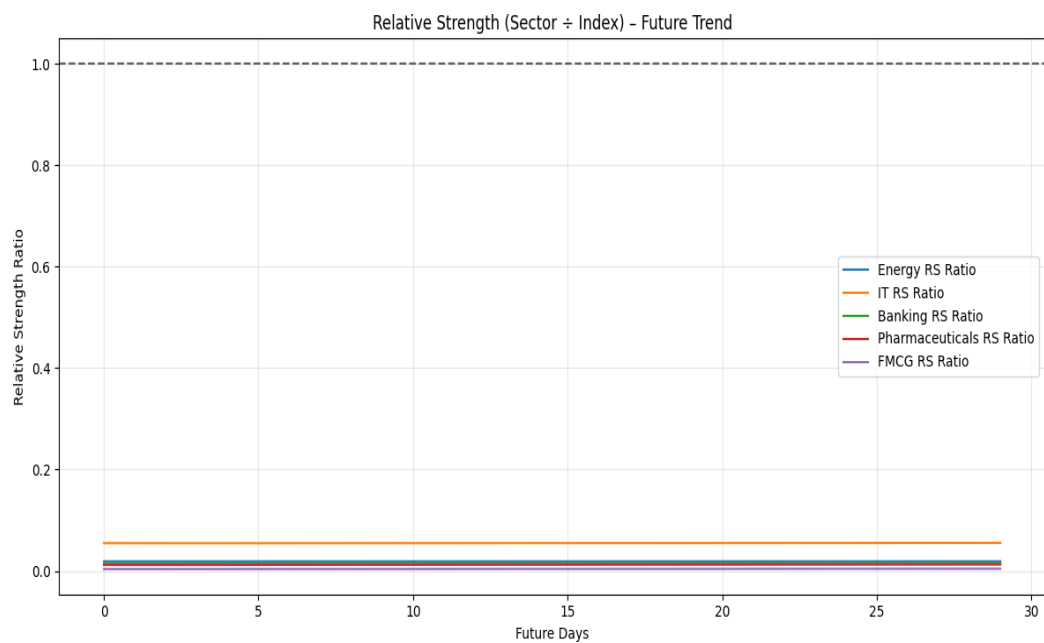


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

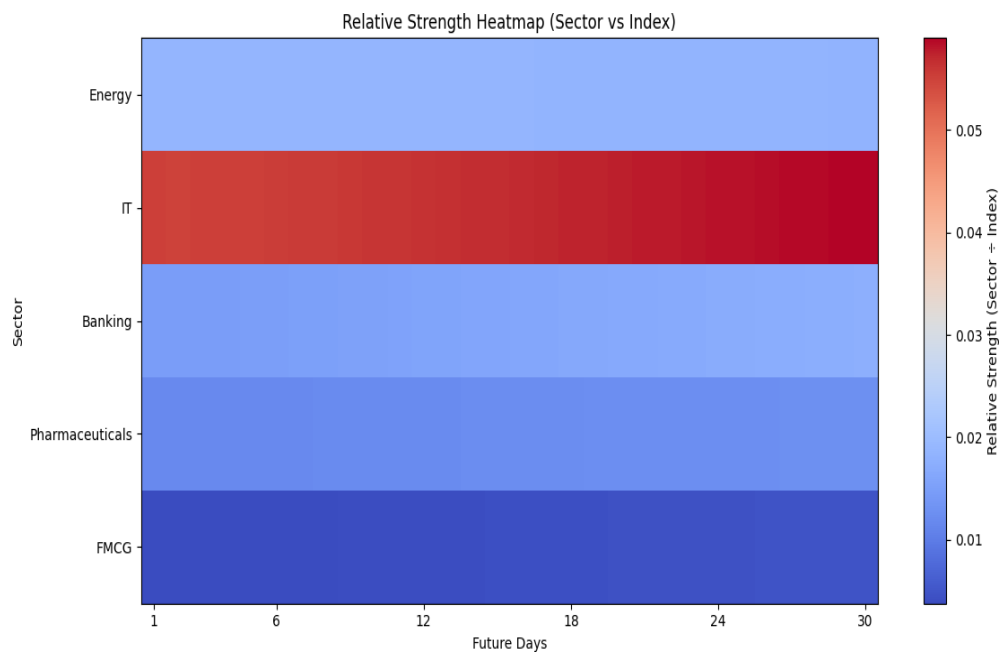


- **Figure 62. Model Output Visualization**

- 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.

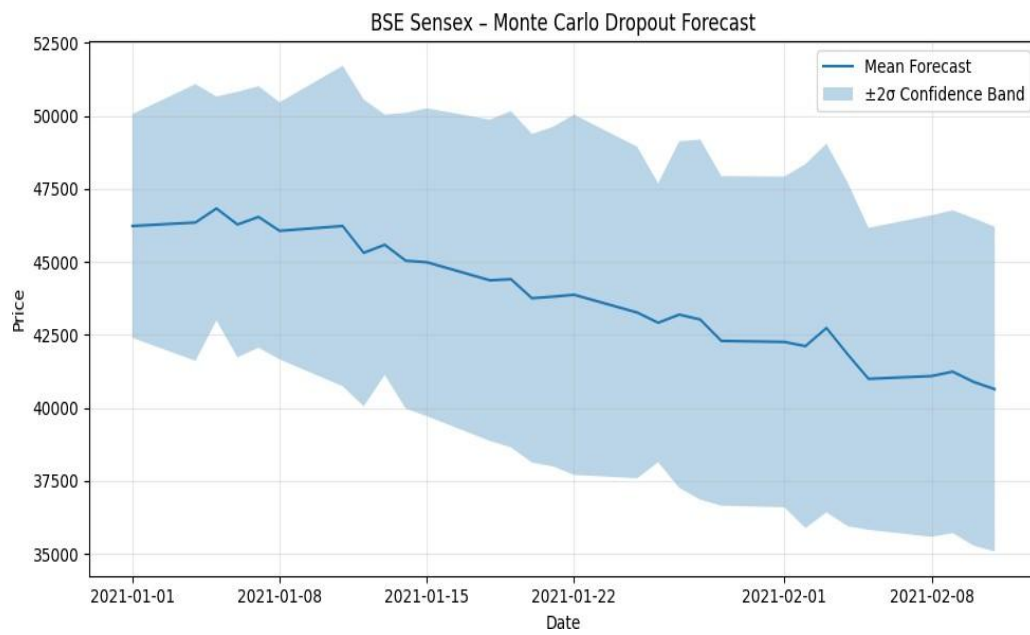


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

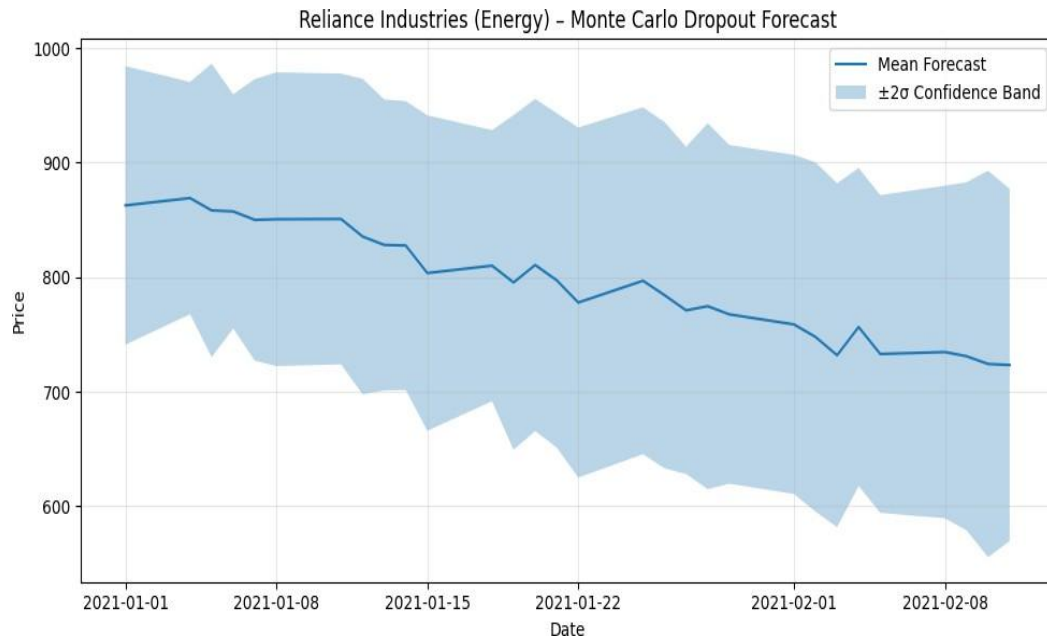


- **Figure 64. Model Output Visualization**

- 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.

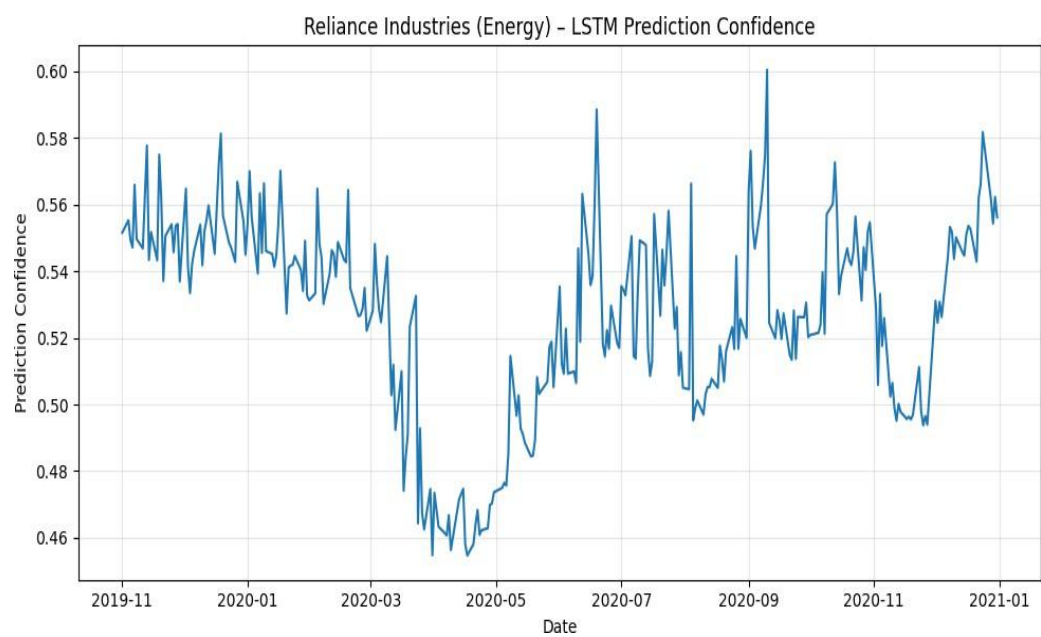


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



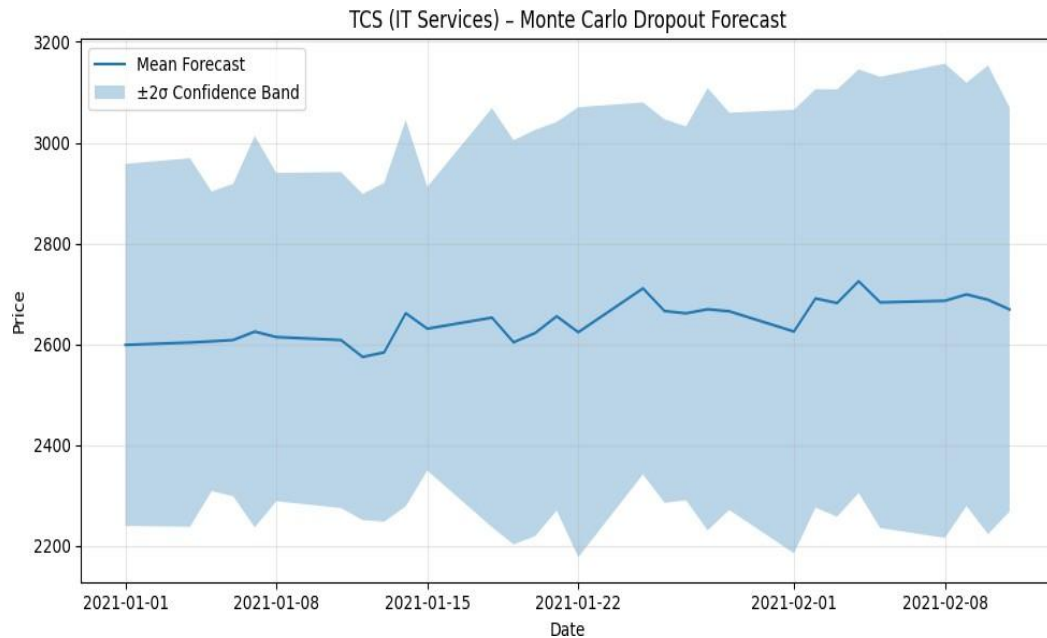
- **Figure 66. Model Output Visualization**

- 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.



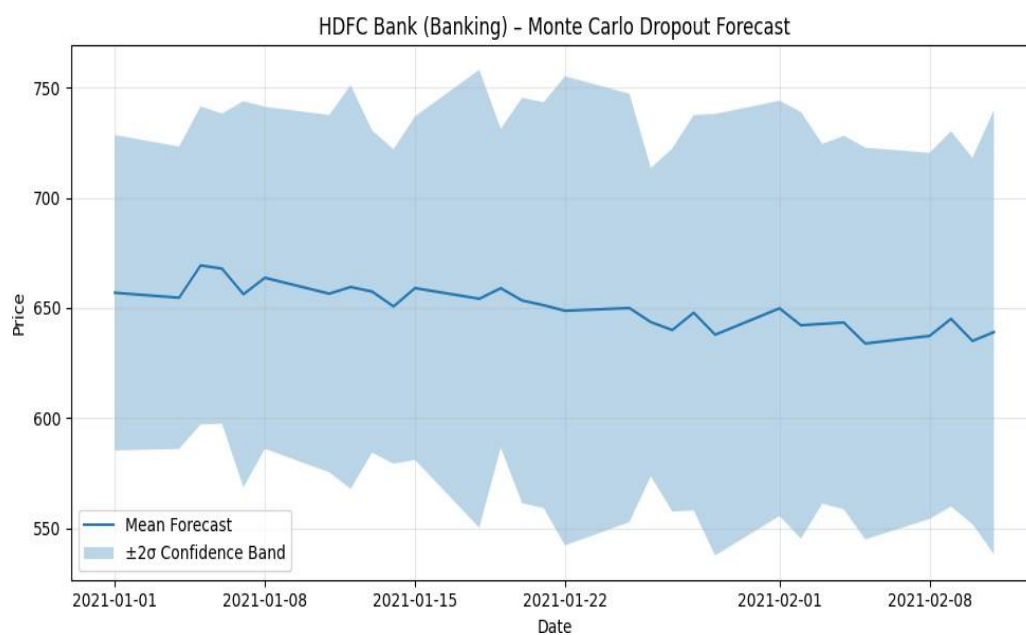


- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.

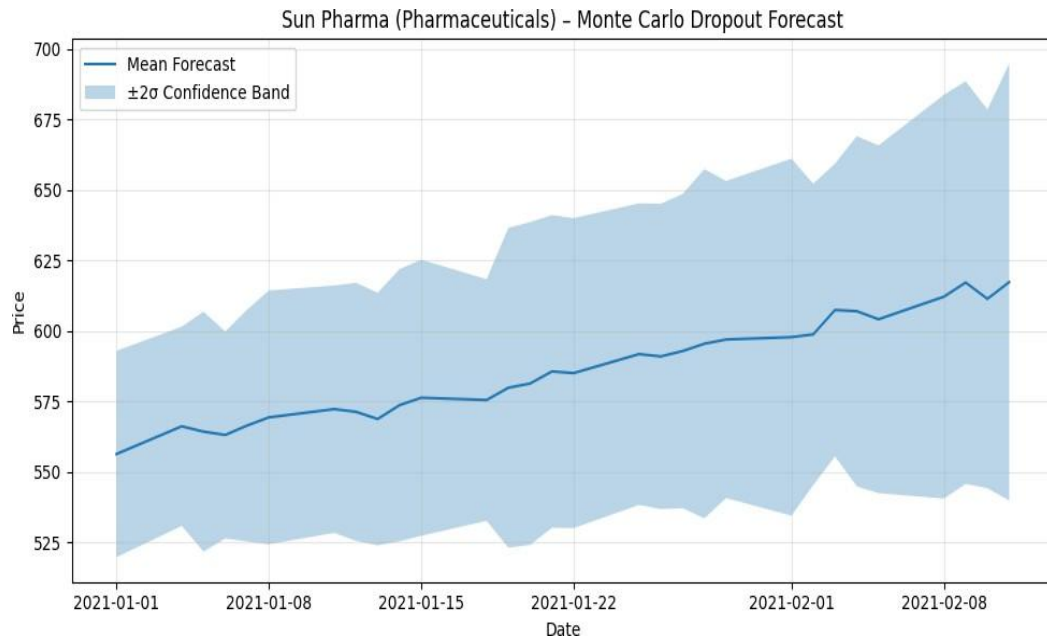


- **Figure 68. Model Output Visualization**

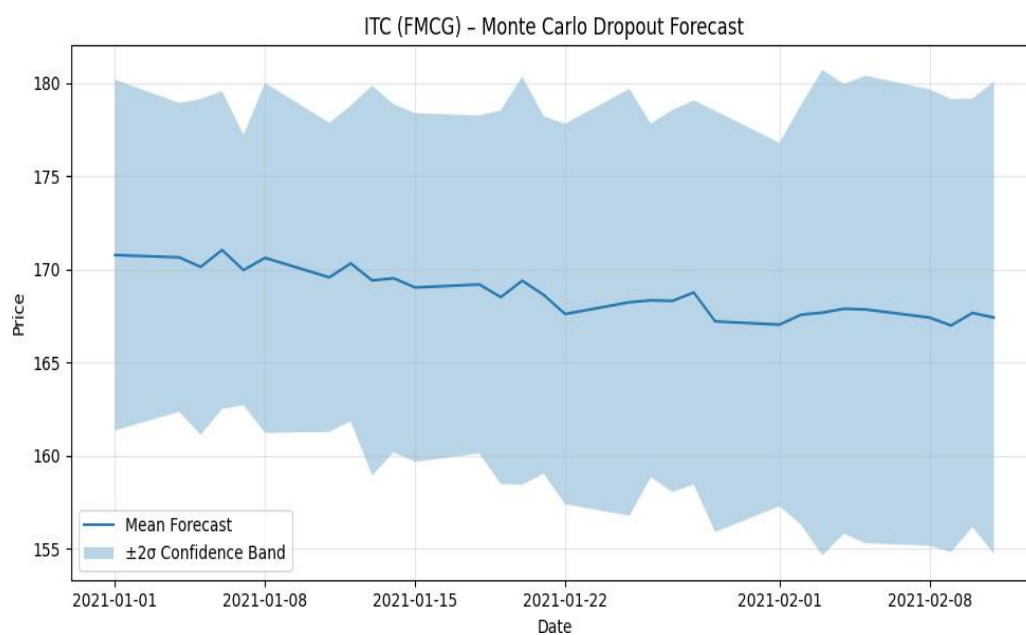
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



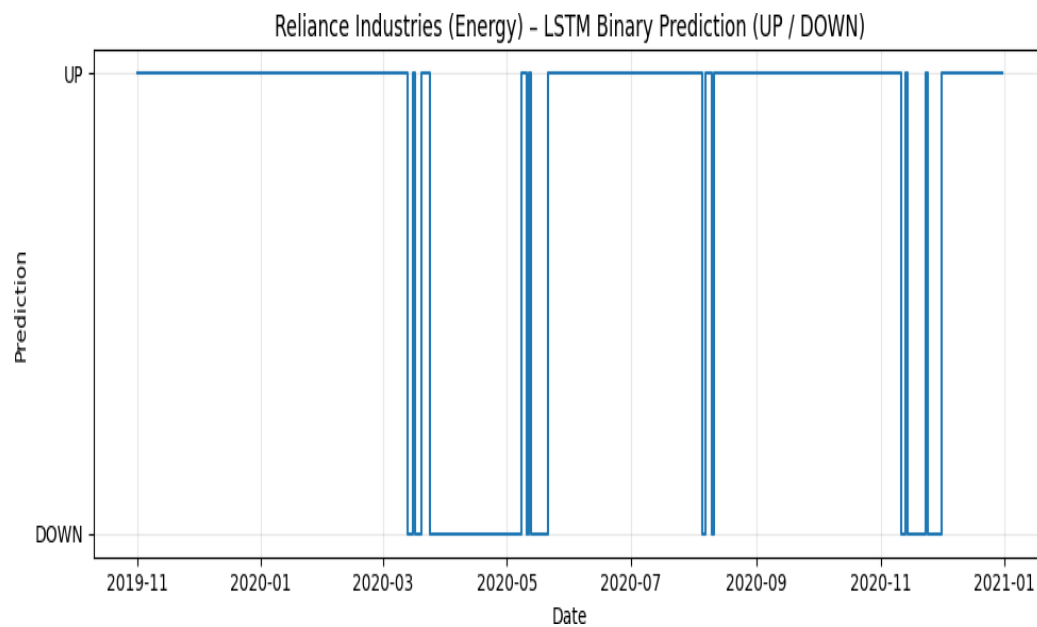
- This figure illustrates the behavior of the LSTM-based forecasting framework under varying market regimes. The visualization supports the presence of temporal dependency learning, regime sensitivity, and forecast uncertainty discussed in the Results section.



- **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.



- 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.

