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February 16th, 2024

94812 – A3: Applications of NL(X) and LLMs - Individual Assignment – *APPENDIX A*: VISUALIZATIONS

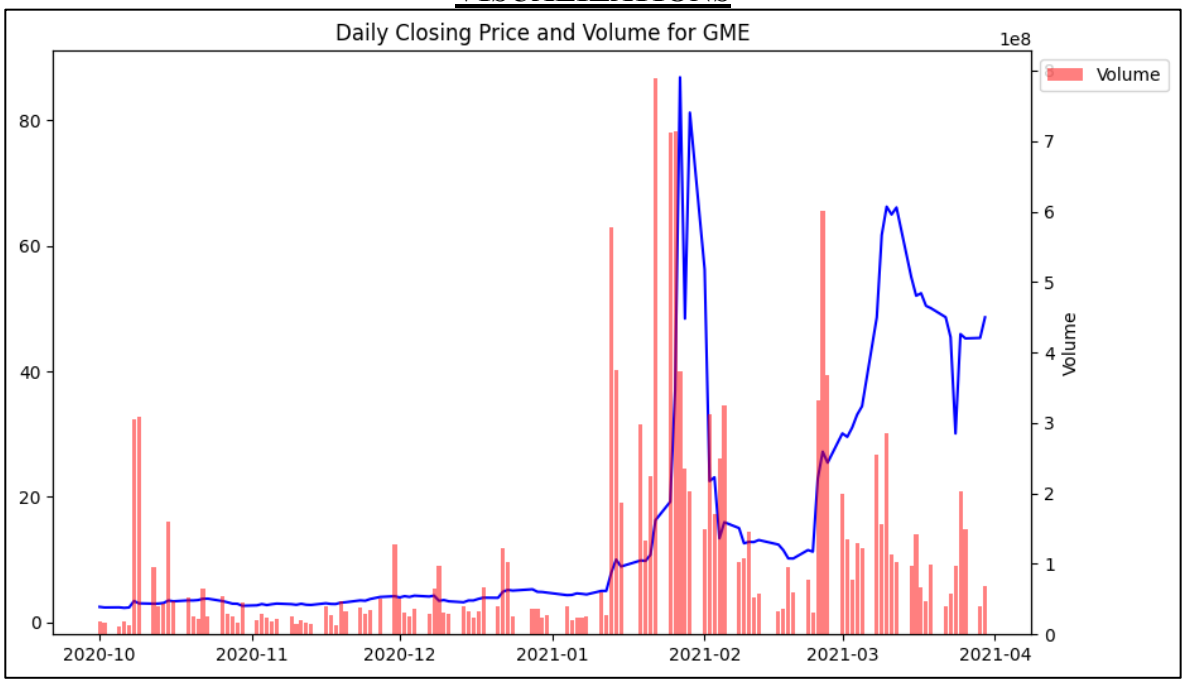

Figure 1: GameStop Company Stock Price During the "WallStreetBets Craze."

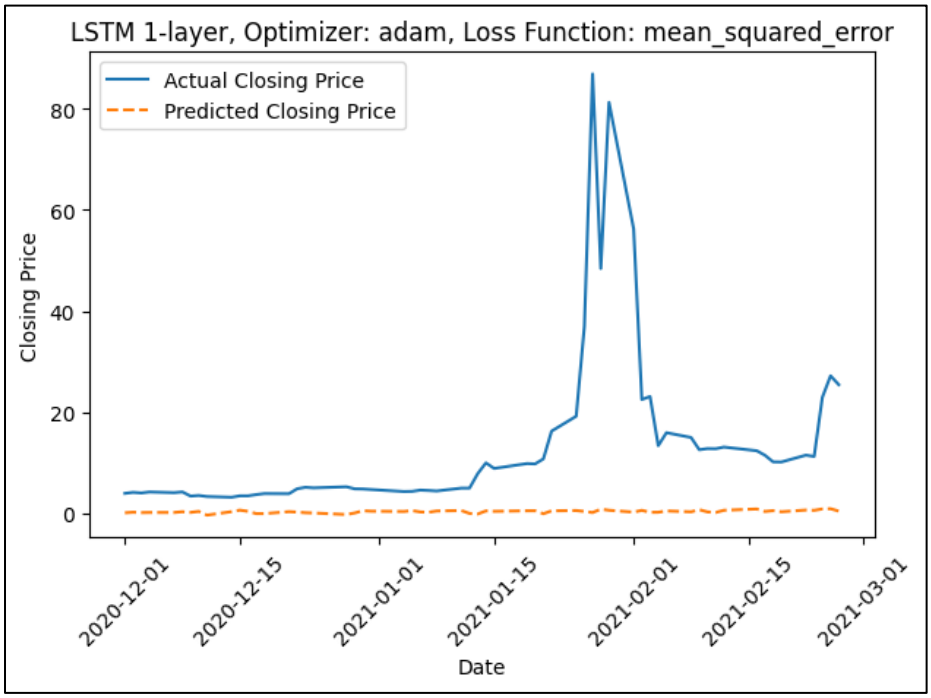

Figure 2: GameStop Closing Price as Predicted by a 1 Layer LSTM using an ADAM Optimizer and MSE as the Loss Function

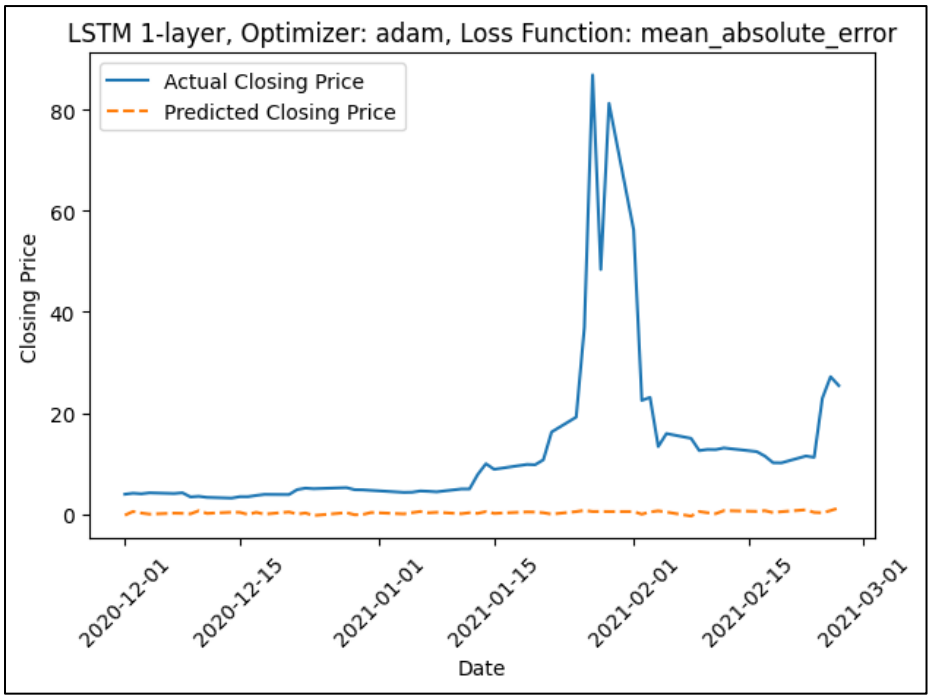

Figure 3: GameStop Closing Price as Predicted by a 1 Layer LSTM using an ADAM Optimizer and MAE as the Loss Function

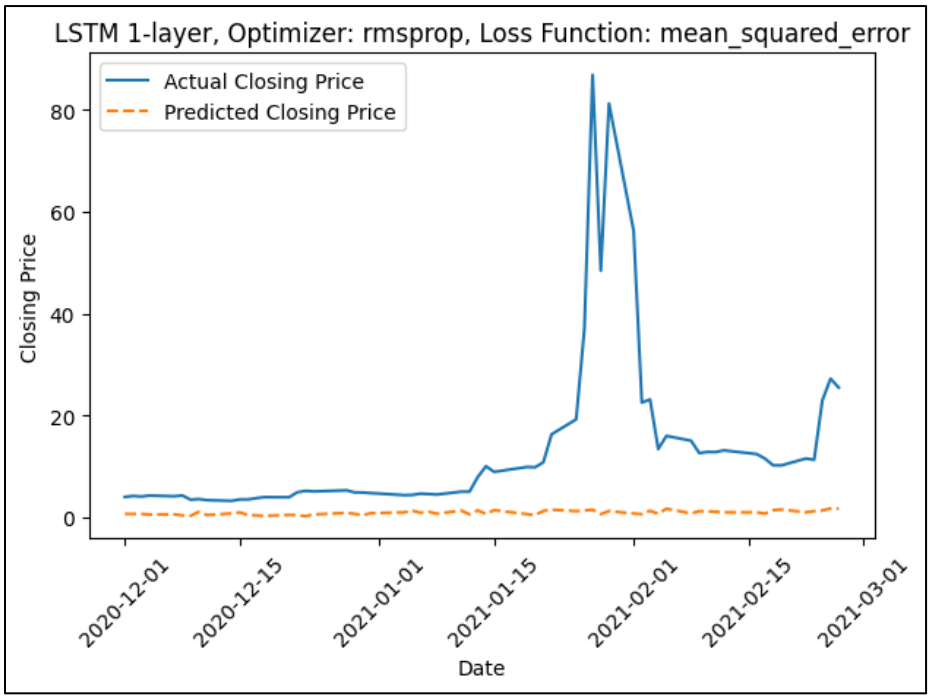

Figure 4: GameStop Closing Price as Predicted by a 1 Layer LSTM using an rmsprop Optimizer and MAE as the Loss Function

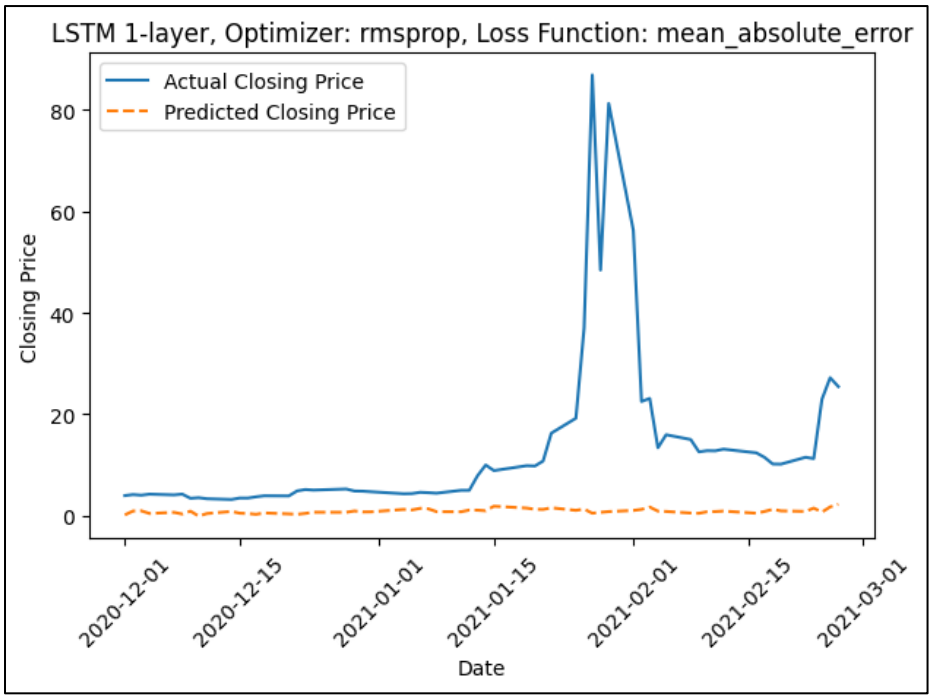

Figure 5: GameStop Closing Price as Predicted by a 1 Layer LSTM using an rmsprop Optimizer and MAE as the Loss Function

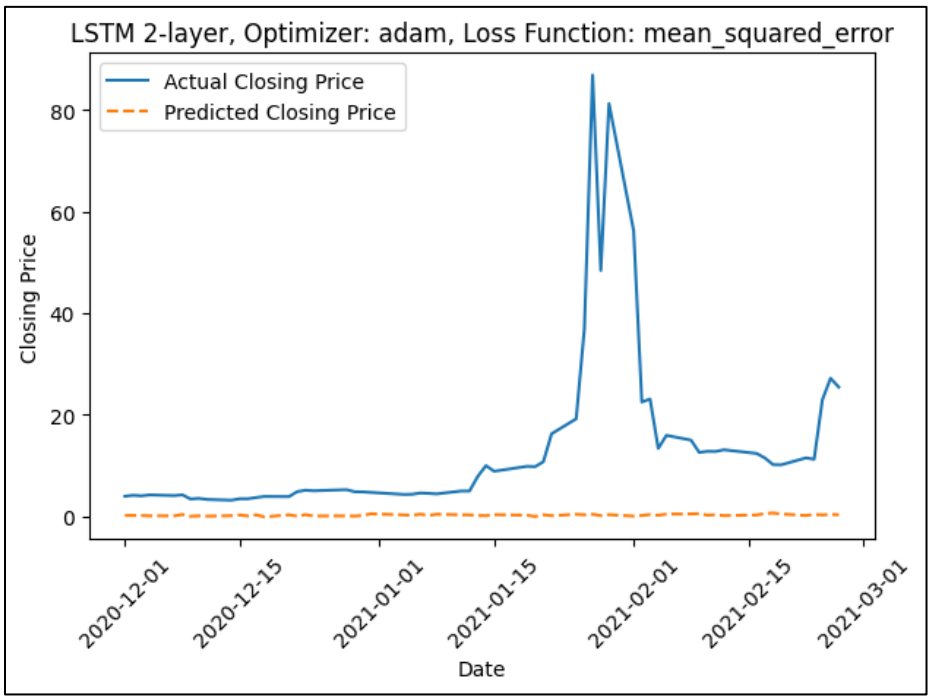

Figure 6: GameStop Closing Price as Predicted by a 2 Layer LSTM using an Adam Optimizer and MSE as the Loss Function

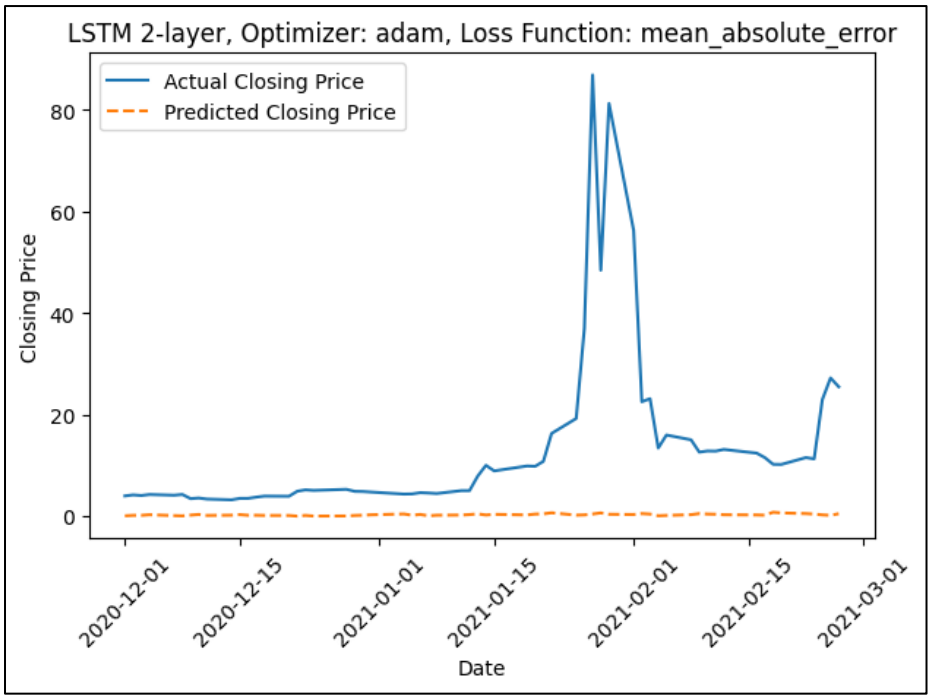

Figure 7: GameStop Closing Price as Predicted by a 2 Layer LSTM using an Adam Optimizer and MAE as the Loss Function

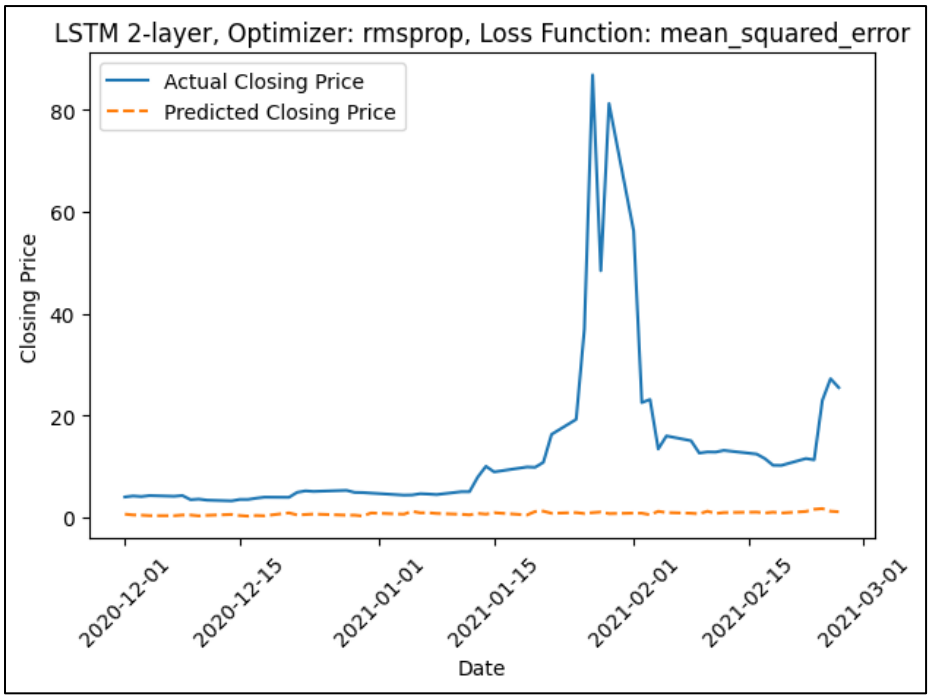

Figure 8: GameStop Closing Price as Predicted by a 2 Layer LSTM using an rmsprop Optimizer and MSE as the Loss Function

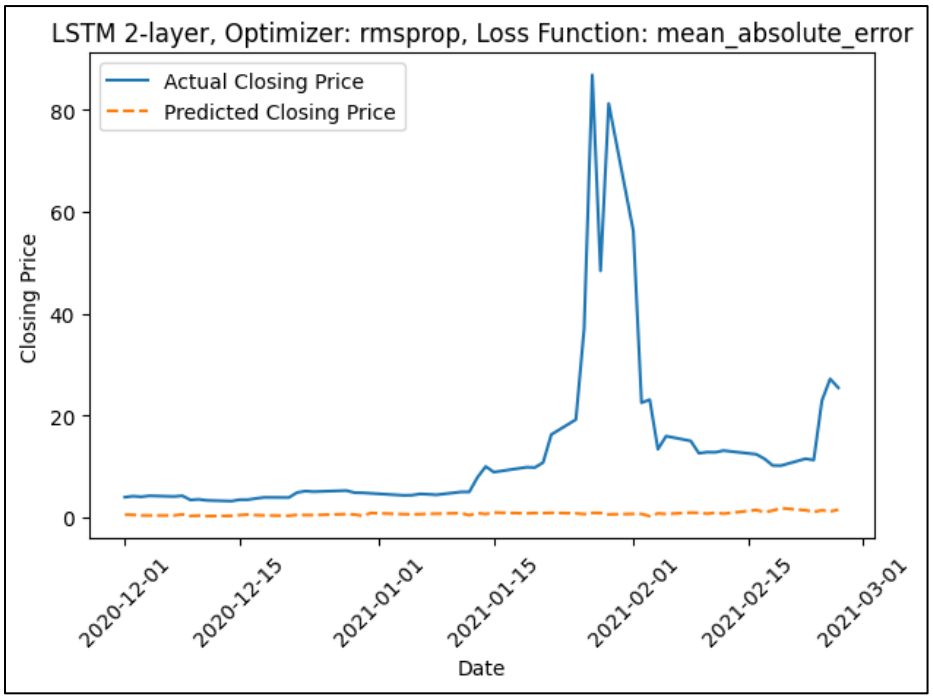

Figure 9: GameStop Closing Price as Predicted by a 2 Layer LSTM using an rmsprop Optimizer and MAE as the Loss Function

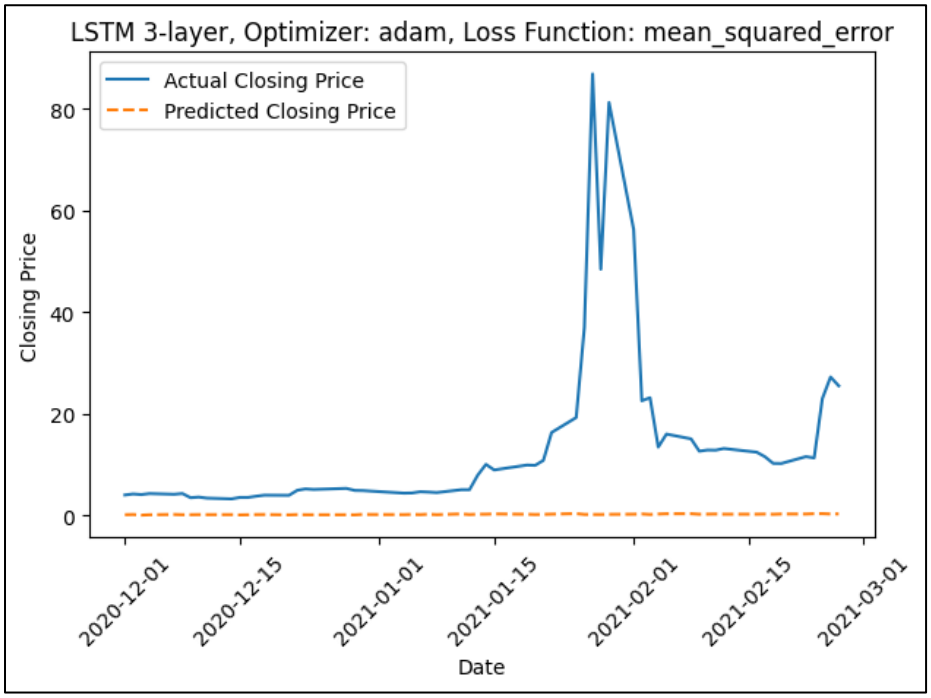

Figure 10: GameStop Closing Price as Predicted by a 3 Layer LSTM using an Adam Optimizer and MSE as the Loss Function

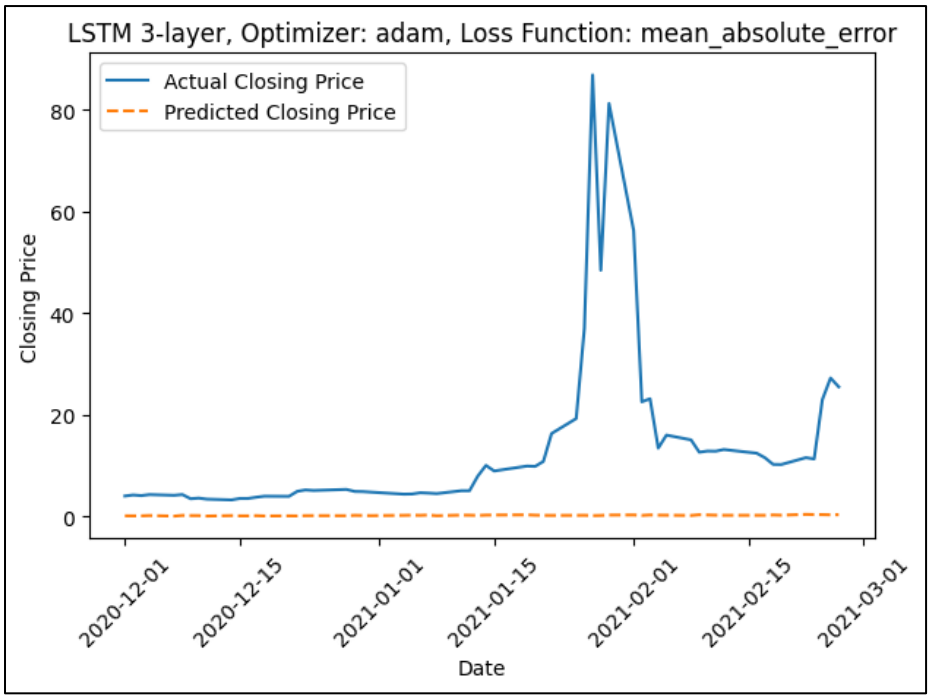

Figure 11: GameStop Closing Price as Predicted by a 3 Layer LSTM using an Adam Optimizer and MAE as the Loss Function

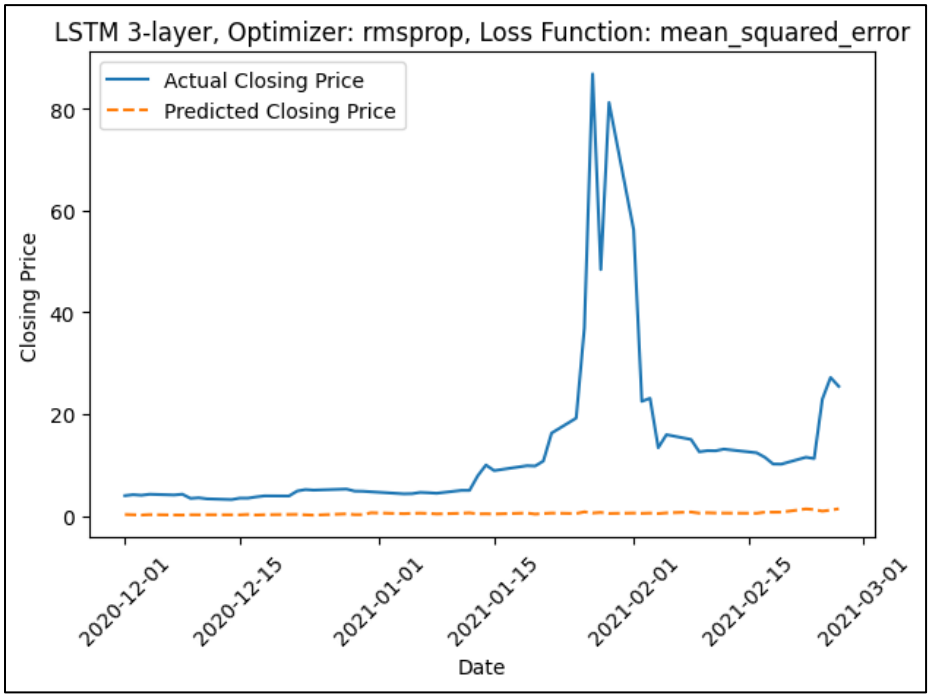

Figure 12: GameStop Closing Price as Predicted by a 3 Layer LSTM using an rmsprop Optimizer and MSE as the Loss Function

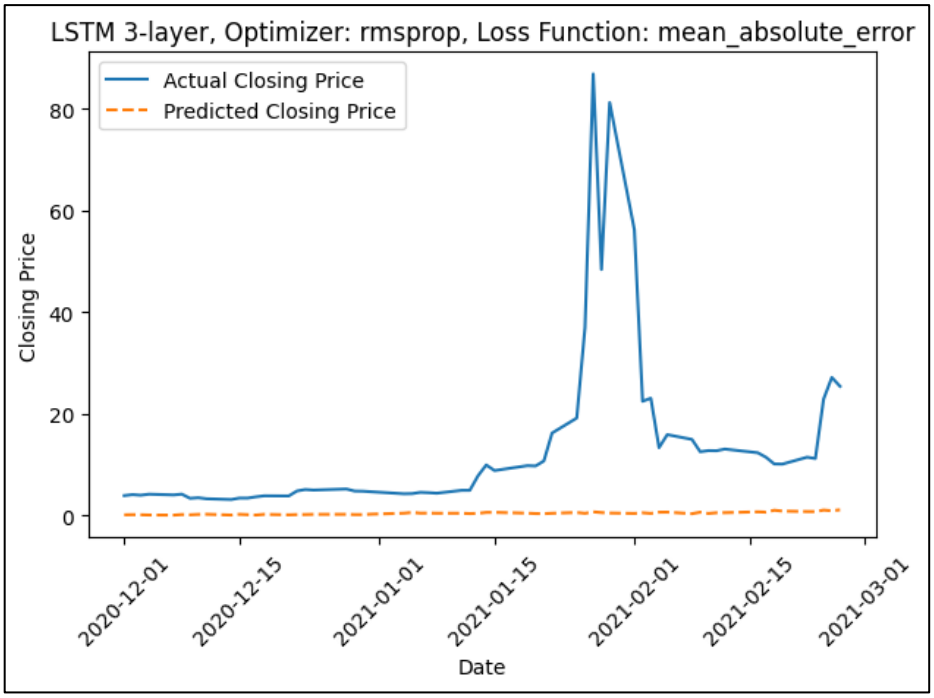

Figure 13: GameStop Closing Price as Predicted by a 3 Layer LSTM using an rmsprop Optimizer and MAE as the Loss Function

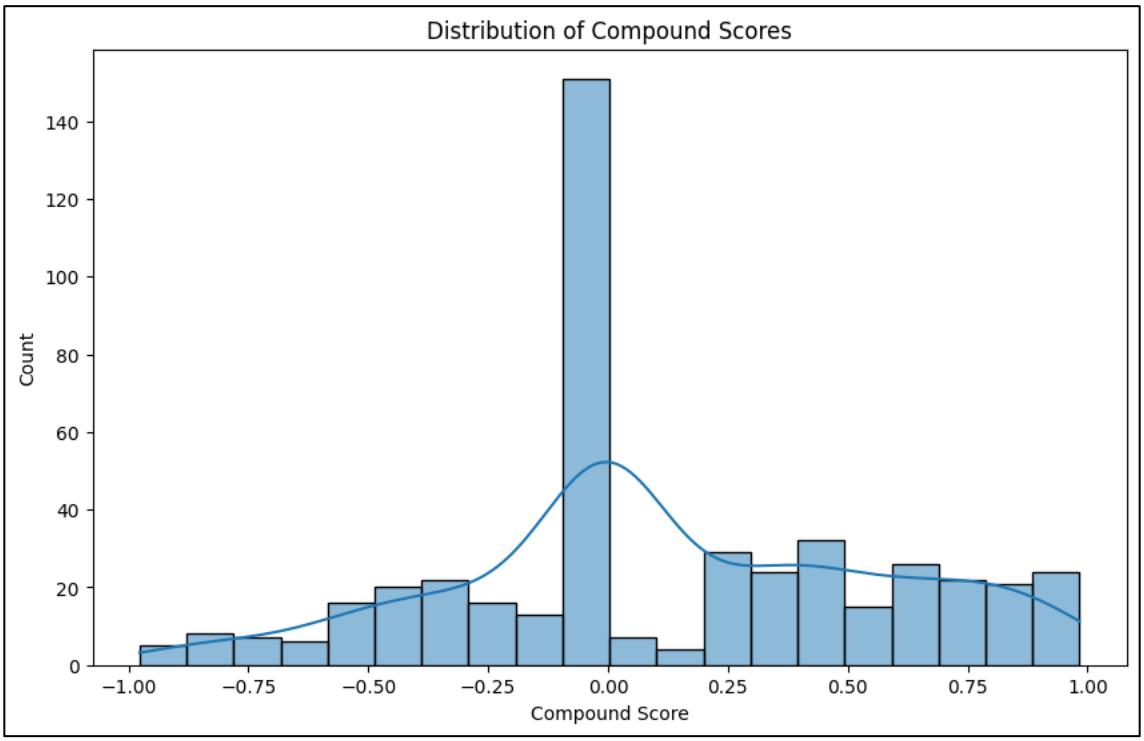

Figure 14: Distribution of Sentiments

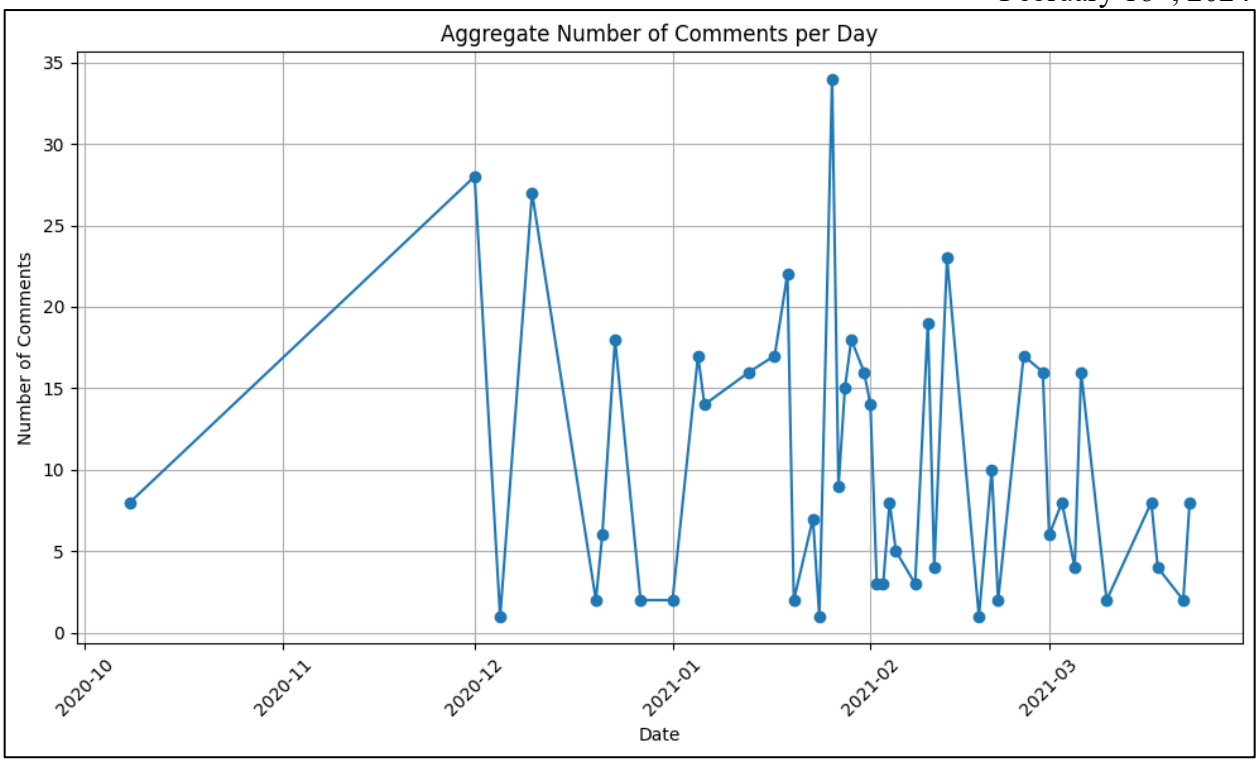

Figure 15: Number of Comments Aggregated Per Day

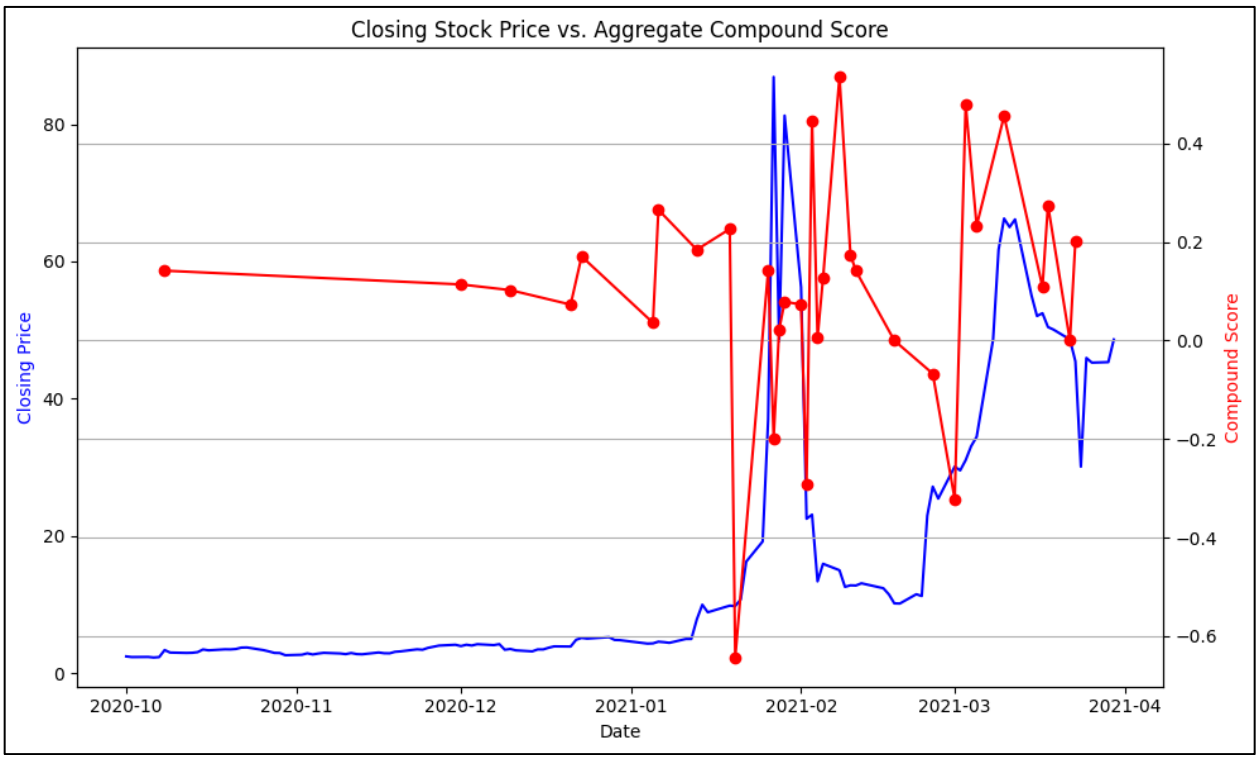

Figure 16: Number of Comments Aggregated Per Day