

**Paper Trading with Machine Learning Models**

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# **Insights**

We have run both EMA and STL based models for Paper Trading. Despite the period being bad due to the current situation (Russia-Ukraine war having negative impact on trade), the EMA based model is performing better than the STL based. There are so many valleys than peaks on the trend, and the algorithm has bought stocks but have not sold yet. However, we believe that we should test the model for a longer period like for a month or two to get understanding of the model performance. Below are screenshots showing Paper Trading live action and the Paper Trading account summary in Alpaca for EMA based model, and the history of the buy and sold order

**Profit**: about 9% status, but model didn’t instruct to sell. So, nothing has been sold, which makes sense last week, the trend was downward

**Best model**: EMA based model

**Buy and Sell History:** Because of the unfortunate downward trend during the week the paper trade executed, the strategy decided only to buy but not sell.(Fig 4)

Graphical user interface, text, application

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Fig 1. While paper trading is running

Graphical user interface

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Fig 2. Paper Trading Status on EMA based model

Graphical user interface, table

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Fig 3. Account Positions

Table

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Fig 4. Close order history details