



Index Funds Forecasting

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Business Problem

Purchasing Index Funds and ETFs have become a popular form of investing. With there being many funds out there, the goal will be to provide investors recommendations on which funds are worth investing.

The Data

- **Tiingo API**
- **Past 5 Year Stock Data**
- **Tickers: VFIAX, IVV, VTSAX, QQQ, SWPPX, SWTSX, FXAIX, NASDX, DIA, VUG, SPY, VOO, VTWO**



Strategy

- **Create a Predictive Model**
- **Predict Future Closing
Prices**
- **Calculate ROI of
Investments**

Modeling Techniques

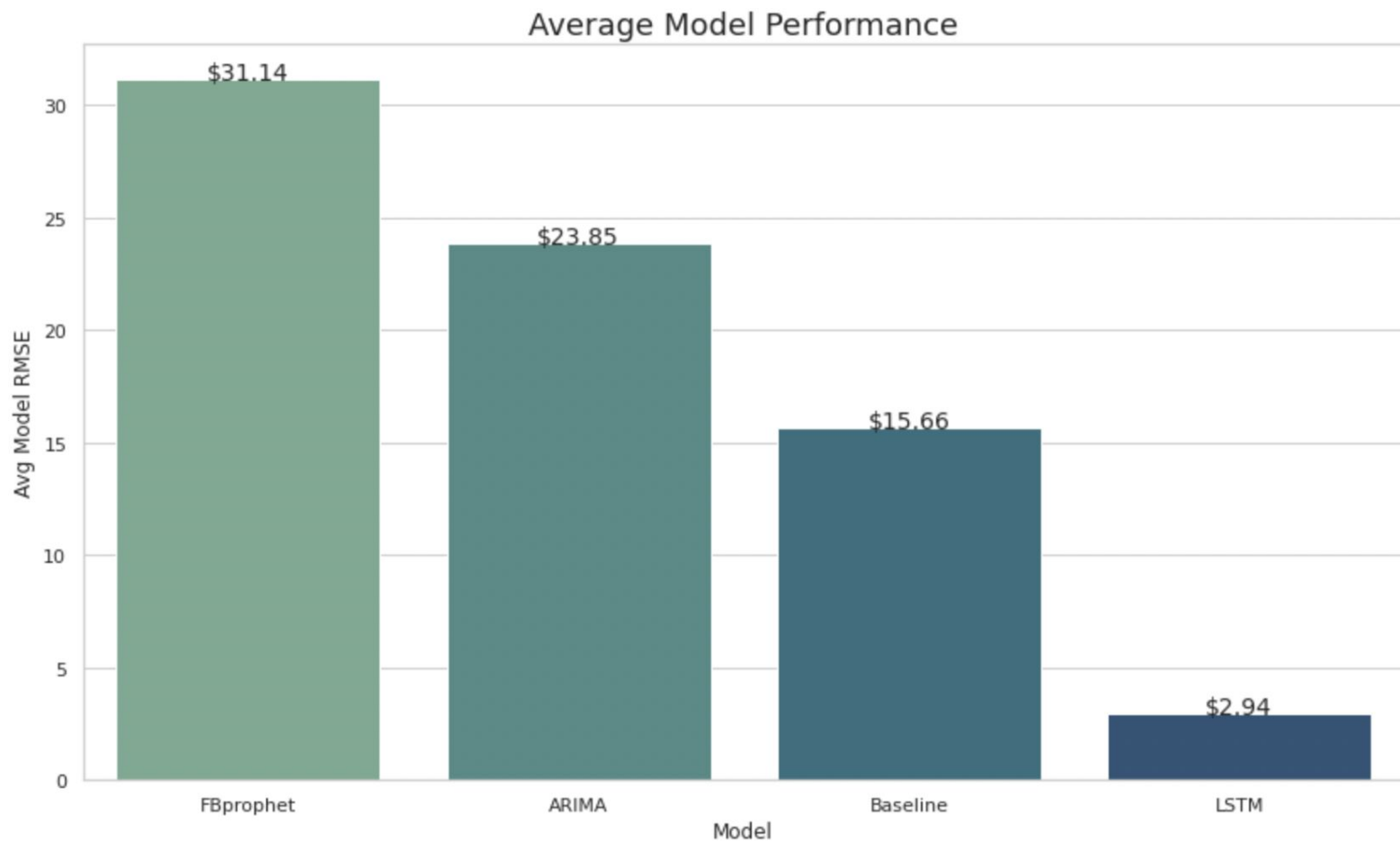
ARIMA

LSTM

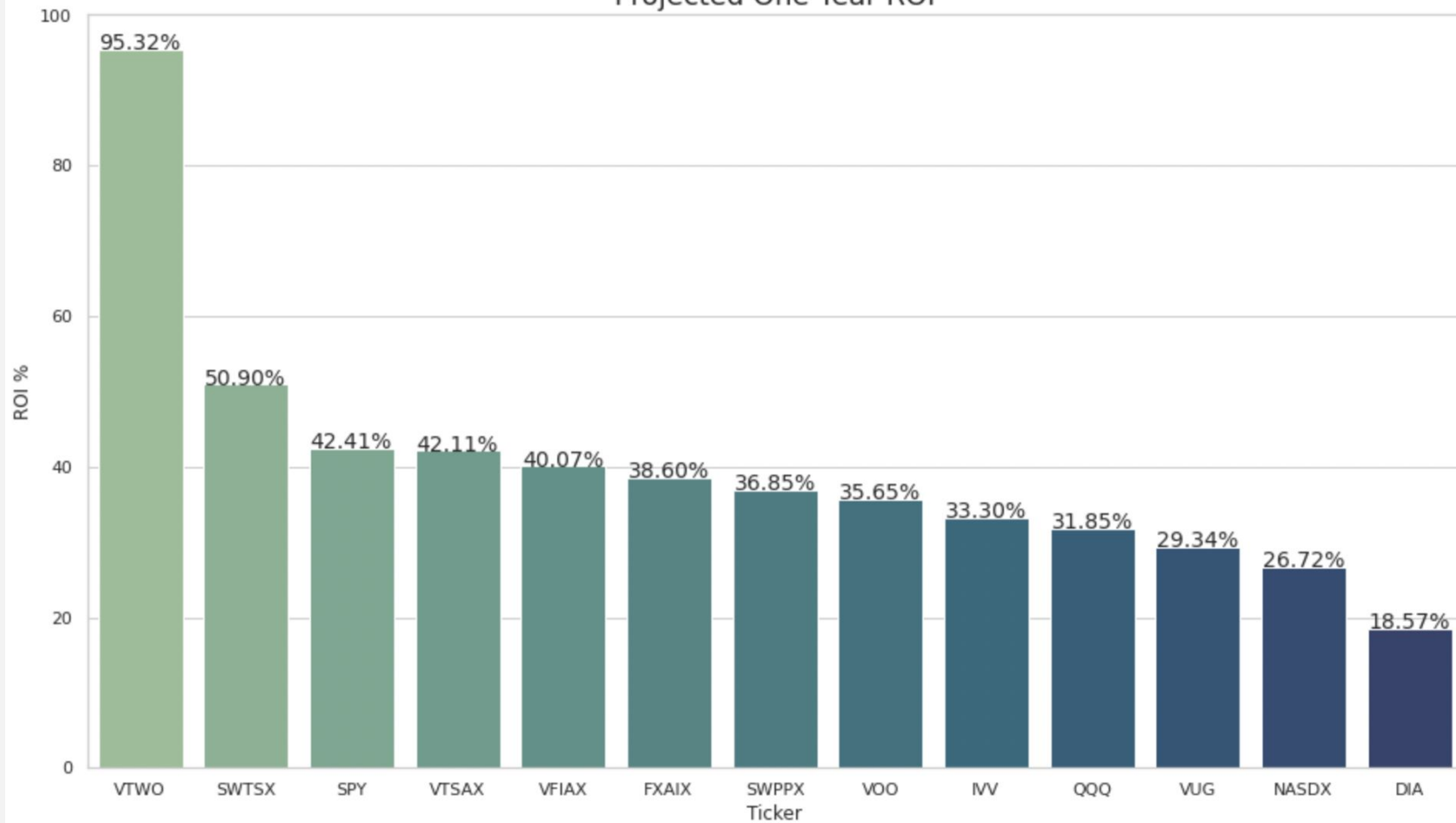
FBProphet



Modeling



Projected One Year ROI



Recommendations



VTWO

**Projected 1 year
ROI: 95.3%**

SWTSX

**Projected 1 Year
ROI: 50.9%**

SPY

**Projected 1 Year
ROI: 42.4%**

Next Steps

- Conduct further investigation on forecasted ROI
- Collect more data
- Consult With Others With Extensive Domain Knowledge
- Further Tuning On The LSTM Model



Thank You

Does anyone have any questions?

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