



Disclaimer: This is
NOT Investment
Advice

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Back in July 2015...



2015	2019
\$41	\$134

+230%



2015	2019
\$116	\$223

+91%

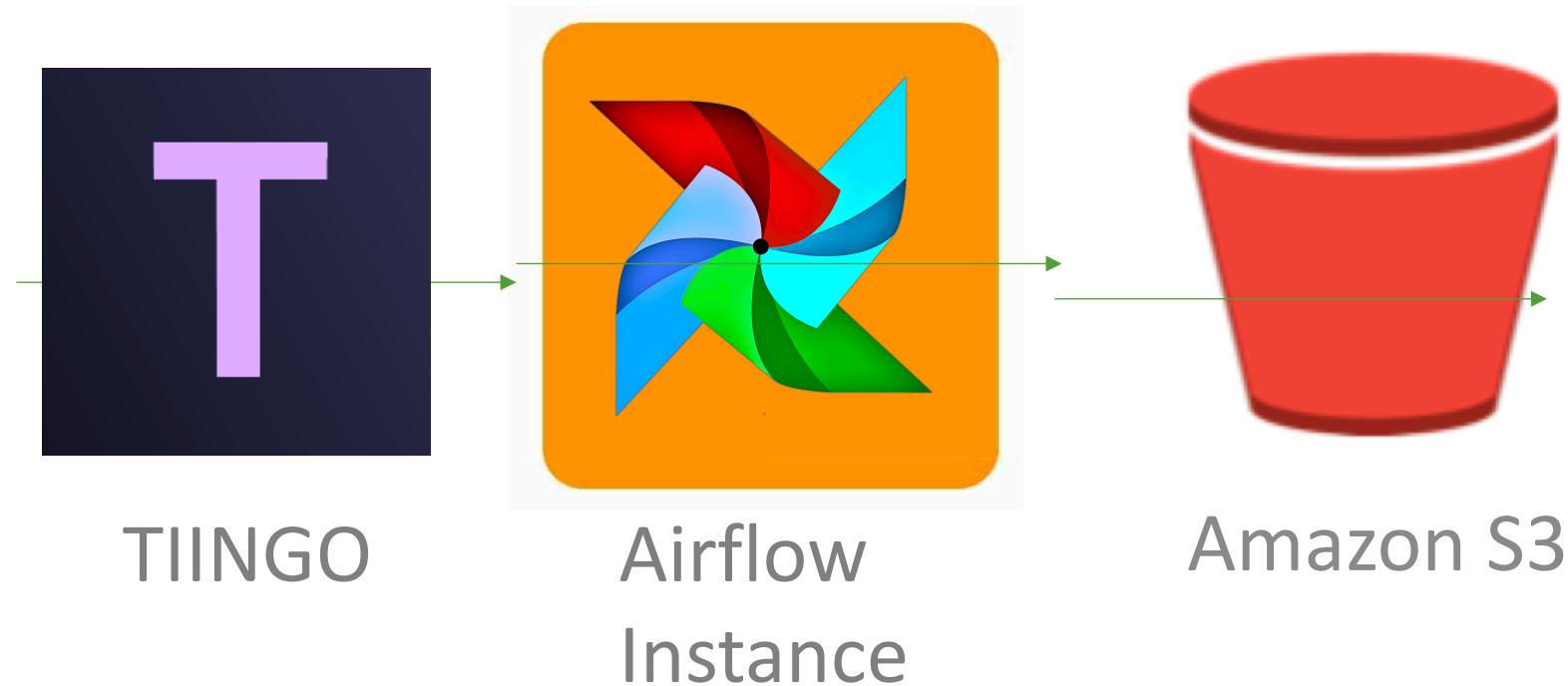
Stock Analysis of the Big 5 Tech Companies



Can I predict the trend of market capitalization of a tech stock in a 1 year period?

Can I predict the price of a tech stock in a 45 day period?

Extract, Transform, and Load



Market Capitalization of Big 5 Tech Companies



Market Capitalization Trend Predictions



Market
Capitalization
(\$ Billions)

1400
1200
1000
800
600
400
200

2015 2016 2017 2018 2019 2020

Year

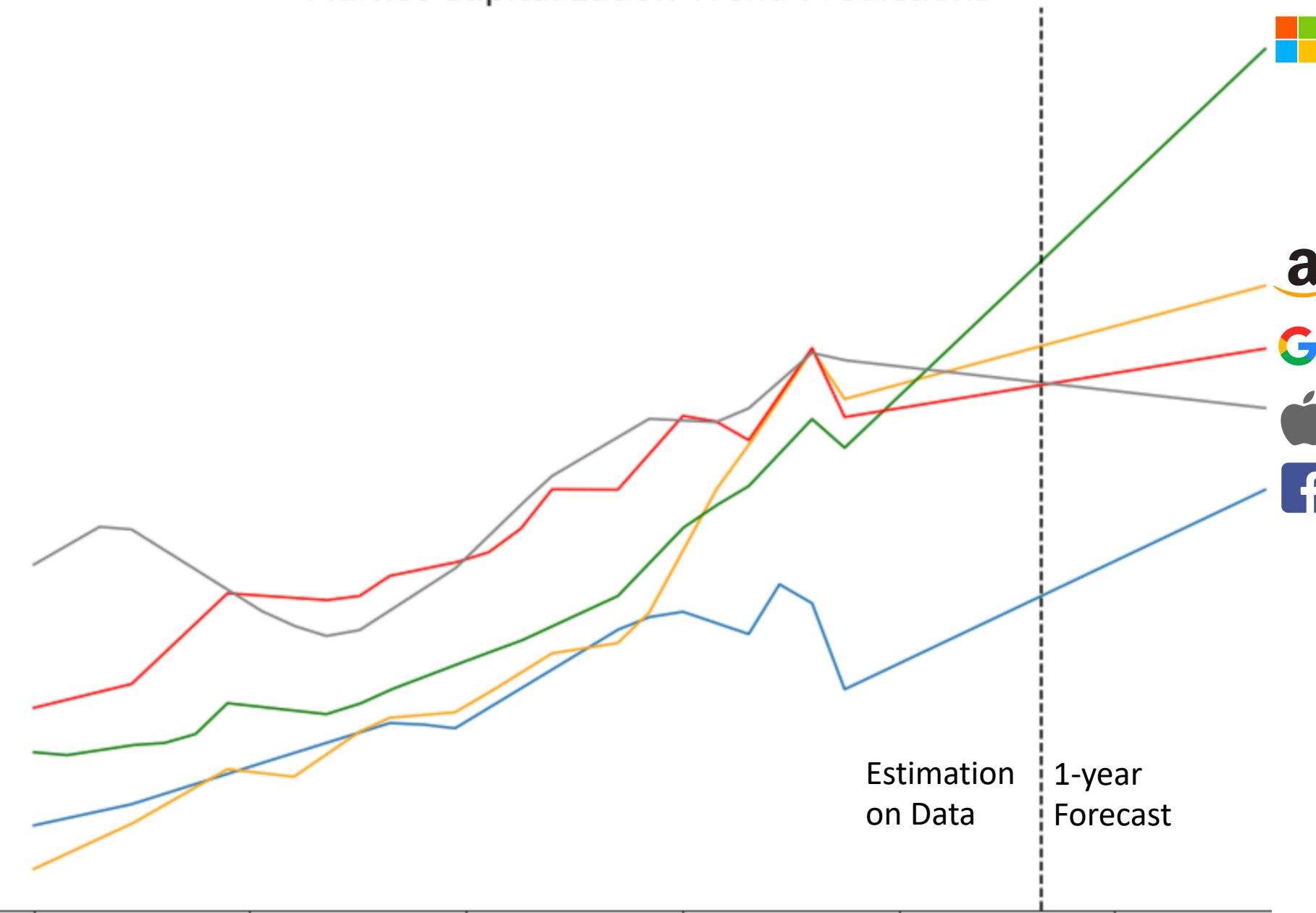
Estimation
on Data | 1-year
Forecast

a

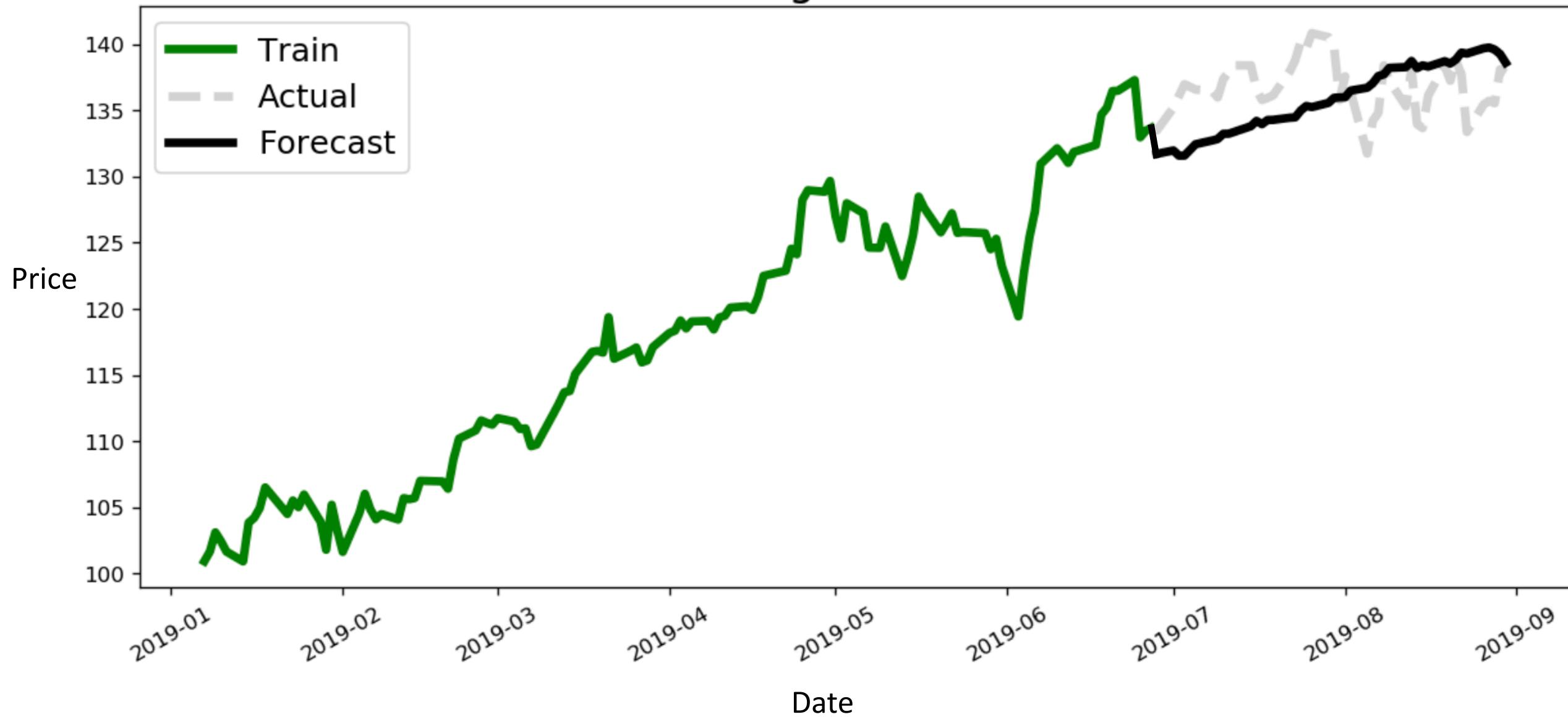
G

apple

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Forecasting Microsoft Price



In-Sample Stock Price Model Accuracy

Stock	Mean Absolute Percentage Error
Microsoft	7 %
Apple	10 %
Google	11 %
Facebook	19 %
Amazon	21 %

Conclusion

- Microsoft is a valuable stock for long term investment
- Time series decomposition models are powerful for forecasting trends and prices
 - Sales forecasting for long-term performance

Thank You



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[hd2zm/Data-Science-Projects](https://github.com/hd2zm/Data-Science-Projects)



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