STOCK MARKET ANALYSIS

GROUP MEMBERS: VAMS

VAMSI KRISHNA

PREKSHA

AKASH GANDHI

MOTIVATION

- Everybody wishes to make money in a short span of time
- People invest in stocks so that they can reap benefits from a trending stock in a short time
- However the stock prices are highly volatile and not easy to predict



INTRODUCTION

- Investors and traders need to take decisions about buying and selling a particular stock based on technical analysis
- Stock analysis is one such method to evaluate the past and current trend of a stock
- Two types of stock analysis are fundamental analysis and technical analysis

STOCK ANALYSIS

FUNDAMENTAL ANALYSIS

- BUSINESS PERFORMANCE
 - FINANCIAL STATEMENTS
 - GOOD PRODUCTS
 - RESPONSIBLE MANAGEMENT

TECHNICAL ANALYSIS

- PRICE MOVEMENT
 - HISTORICAL TRENDS
 - STOCK PRICE
 - VOLUME OF STOCKS

So an investor should incorporate both fundamental and technical analysis before investing in a stock

EXTERNAL FACTORS THAT INFLUENCE STOCK PRICES

- News releases on earnings and profits, and future projections
- Securing a new or large contract
- Accounting errors or scandals
- Anticipated takeover or merger
- A change in management or leadership

OUR AREA OF FOCUS-EFX

MHA EÖNLYXSS

- Equifax is a credit reporting agency and based on the credit report of the consumer, they come up with a credit score
- Equifax owns millions of sensitive records of consumers before they evaluate and report a credit score
- There was a data breach in Equifax servers which resulted in hackers gaining information to almost 40% of US population
- ▶ This data breach was publicly announced on Sept 7th 2017

Analysis on Equifax Stock Data

- Data Source : https://finance.yahoo.com
- Period: 2 years with daily frequency
- Technical Analysis: Performed analysis using Exponential moving averages (EMA) and Average Directional Index. (ADX)



Bullish Bearish

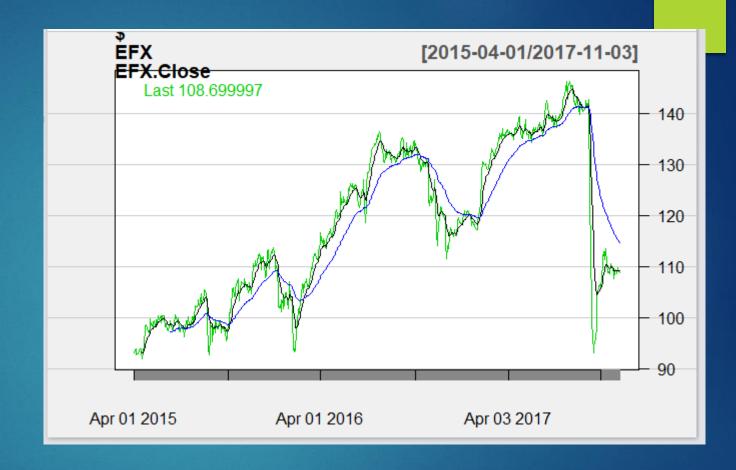




Trends of Equifax

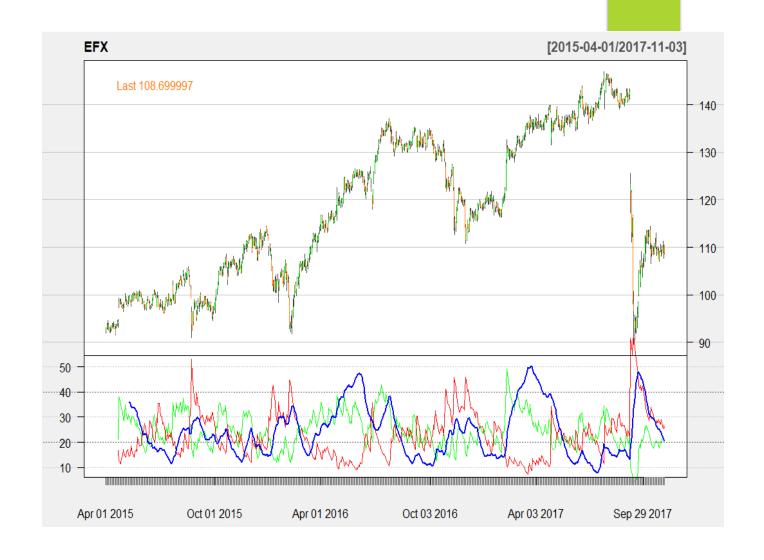
EMA

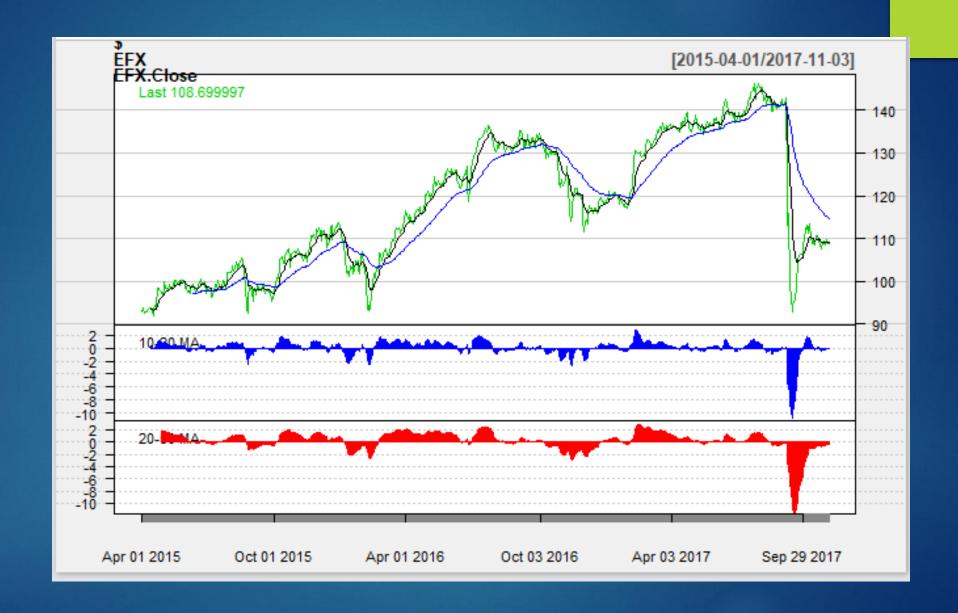
- It is used for smoothening of the curve.
- An exponential average gives more weight to the latest data and reacts faster to price fluctuations than a simple moving average.



ADX

- It is used to find the strength of the trend
- It is non-directional by nature





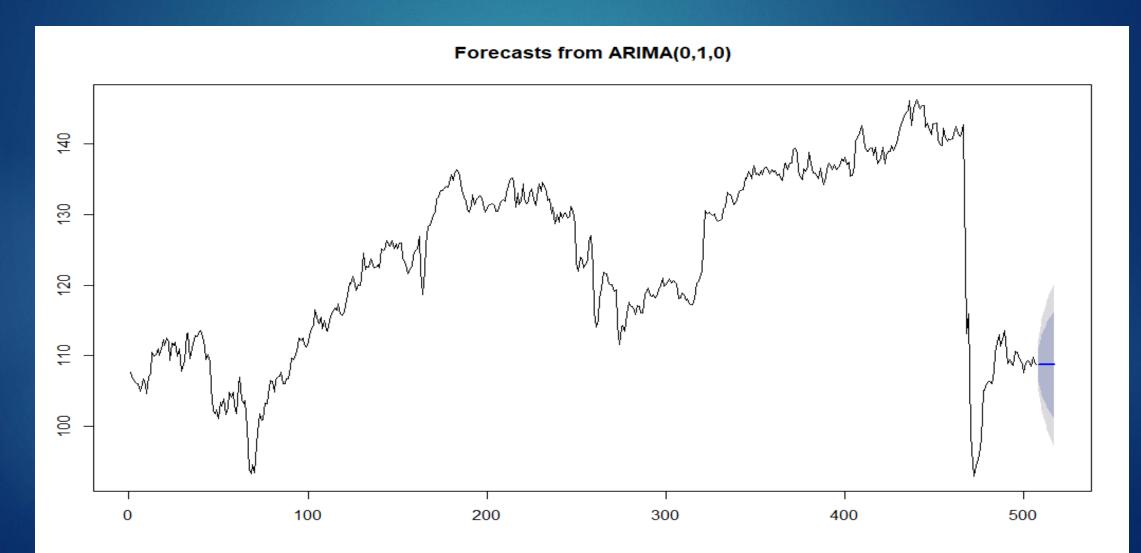
Short and Long



Forecasting of Time Series Data

- Forecasting involves predicting the values using historical data.
- One method of forecasting the time series data is using Auto Regressive Moving Average Model (ARMA).
- Prerequisite for ARIMA model is that the data has to be stationary.
- The model combines three basic methods:
- i. Auto Regressive models(p): No of lagged values.
- ii. Differencing (d): Degree of differencing.
- iii. Moving Averages models(q): It refers to the random errors in previous period.
- The representation of ARIMA (p,d,q).

	Actual Value for next time period
109.31	108.79



Conclusion

- As per the case study we can observe an unpredictable trend because of the data breach which affected their price.
- ► The analysis helps us to understand when an investor and a trader can invest in stocks.
- An understanding on how to forecast the time series data?

References

- https://www.investopedia.com
- https://www.fidelity.com
- http://stockcharts.com/

Thank You