# Intel Corporation Inc. Stock Data Analysis

# Team Members

#### Group members present (Name ID):

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#### Outline

- Business Summary
- CAPM Model
- Ratio Calculation
- Technical Analysis
- Monte Carlo Simulation
- Bollinger Bands
- Simple & Exponential Moving Average
- Price Forecasting
- Recommendations



## **Business Summary**

- Intel Corporation designs, manufactures, and sells computer components and related products.
- The Company major products include microprocessors, chipsets, embedded processors and microcontrollers, flash memory, graphic, network and communication, systems management software, conferencing, and digital imaging products

#### CAPM Model

Determine the expected return on an investment based on its risk.

The CAPM demonstrates the relationship between the expected return and

risk of an investment.

<ul> <li>Ra = F</li> </ul>	kf + βa (	(Rm -	Rf)
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- Beta = 1.01
- RF = 4.17%
- RM = 0.97%
- RA = 12.32%

2976.74	1.01718	9/1/2019	45.676945	1.09424									
3037.56	1.02043	10/1/2019	50.109013	1.09703	SUMMARY OUTPUT								
3140.98	1.03405	11/1/2019	51.456364	1.02689									
3230.78	1.02859	12/1/2019	53.34388	1.03668	Regressio	Regression Statistics							
3225.52	0.99837	1/1/2020	56.980366	1.06817	Multiple R	0.744748985							
2954.22	0.91589	2/1/2020	49.484589	0.86845	R Square	0.554651051							
2584.59	0.87488	3/1/2020	48.474327	0.97958	Adjusted R Square	0.546698391							
2912.43	1.12684	4/1/2020	53.72303	1.10828	Standard Error	0.046676774							
3044.31	1.04528	5/1/2020	56.365284	1.04918	Observations	58							
3100.29	1.01839	6/1/2020	53.891384	0.95611									
3271.12	1.0551	7/1/2020	42.992405	0.79776	ANOVA								
3500.31	1.07006	8/1/2020	45.892799	1.06746		df	SS	MS	F	Significance F			
3363	0.96077	9/1/2020	46.957165	1.02319	Regression	1	0.151952937	0.15195	69.7441	2.04968E-11			
3269.96	0.97233	10/1/2020	40.155724	0.85516	Residual	56	0.122008388	0.00218					
3621.63	1.10755	11/1/2020	43.846642	1.09192	Total	57	0.273961325						
3756.07	1.03712	12/1/2020	45.508339	1.0379									
3714.24	0.98886	1/1/2021	50.705898	1.11421		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
3811.15	1.02609	2/1/2021	55.519814	1.09494	Intercept	0.038773779	0.116780447	0.33202	0.74111	-0.195165567	0.27271	-0.1951656	0.272713125
3972.89	1.04244	3/1/2021	58.815987	1.05937	1.029728889	0.9635737	0.115380182	8.35129	2E-11	0.732439421	1.19471	0.7324394	1.194707978
4181.17	1.05243	4/1/2021	52.870064	0.89891									
4204.11	1.00549	5/1/2021	52.493267	0.99287	CAPM Model Formul	a							
4297.5	1.02221	6/1/2021	51.910416	0.9889	Ra = Rf + βa (Rm – Rf	)							
4395.26	1.02275	7/1/2021	49.672749	0.95689	beta	1.01							
4522.68	1.02899	8/1/2021	49.987125	1.00633	rf	4.17%							
4307.54	0.95243	9/1/2021	49.58604	0.99198	rm	0.97%							
4605.38	1.06914	10/1/2021	45.602776	0.91967		12.24%							
4567	0.99167	11/1/2021	45.788906	1.00408	RA	12.32%							
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### Ratio Calculation

Gross Profit Margin: 40%

Current Ratio: 1.54

Return on Assets: 2.38%

Quick Ratio: 1.15

Return on Equity: 38%

Cash Ratio: 0.89

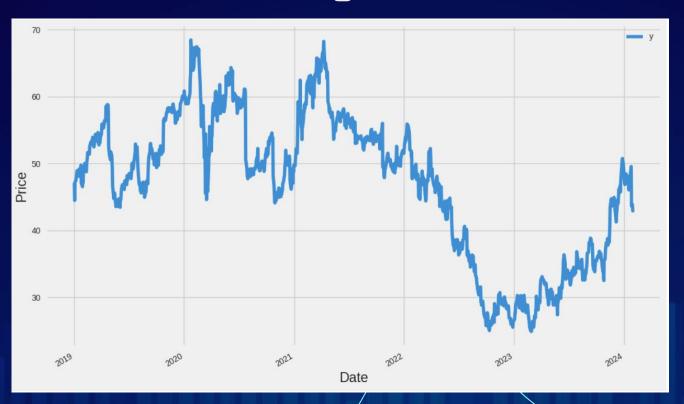
Net Profit Margin: 3%

Debt to Equity: 0.77

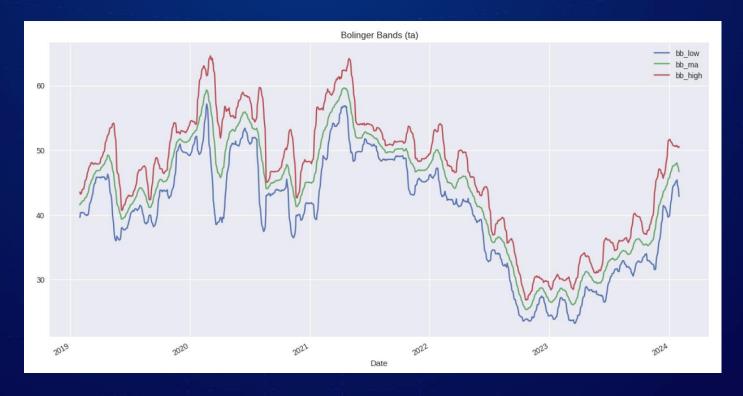
Price to Earnings: 90.58



# Technical Analysis







# Bollinger Bands

#### Monte Carlo Simulation

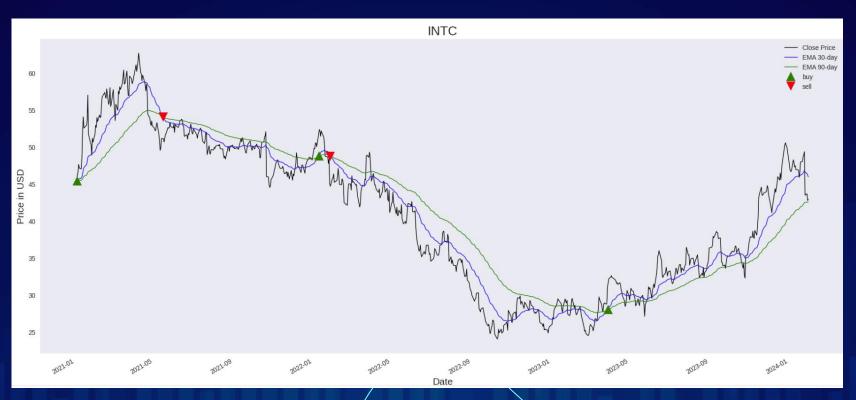
- A method used to predict various possible outcomes by analyzing statistics.
- It helps estimate how investments might perform in different situations.
- By doing this, it gives a range of potential returns for investments.
- Average = 16.9%
- Std Div = 0.016
- Average Price = 58.59
- Std. Div. Price = 0.8389
- Positive Return is 68.66%.



# Simple Moving Average(SMA)



# Exponential Moving Average(EMA)



# Forecasting



#### Recommendation

- The company's financial numbers and predictions for the stock price to go up suggest it could be a good investment.
- Because the company's finances look strong and it's expected to keep growing, it seems like a good idea to invest for the long term rather than just a short time.
- Even though prices might go up and down in the short term, in the long run, it seems like the company will keep doing well, so it's less risky to invest for a longer time.

