Investor Days

Final Presentation - 11/30



Meet The Team

Rohan Sanjay *Project Manager*



JuniorApplied Mathematics

Morgan Lu *Analyst*



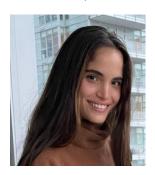
JuniorComputer Science and
Economics/Mathematics

Syrah Vaswani *Analyst*



JuniorBusiness
Administration

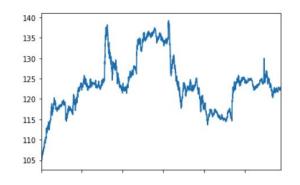
Leyla Winston *Analyst*



Junior Economics Art History

Problem Identification



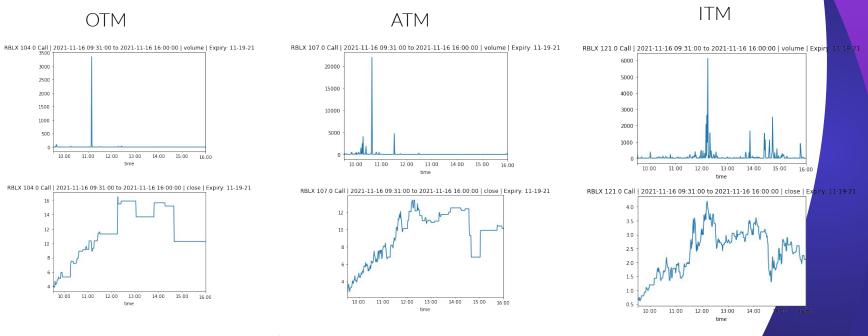


 Main objective → investigate heightened variability of price movements on investor days

Roblox Investor Day

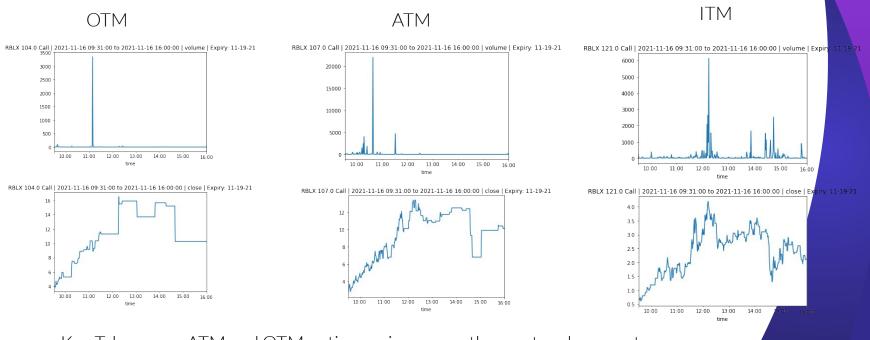
- Hosted on November 16, 2021 at 8am PT/11am ET
- Stats:
 - Opening Price: \$107.01
 - Closing Price: \$116.18
- Key Takeaways:
 - Focus on metaverse
 - Release of public analysis
 - Potential development of three games for students

Roblox Analysis: Volume



Key Takeaways: Spikes in volume reflect fluctuations in price

Roblox Analysis: Moneyness

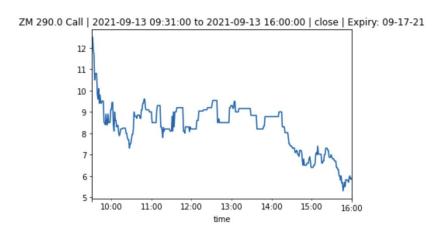


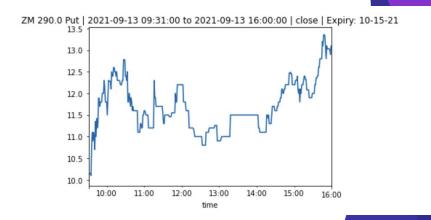
Key Takeaways: ATM and OTM options prices move the most and appear to be more volatile than ITM options prices

Zoom Investor Day

- Investor or "Analyst" Day was held on 9/13/21
- Stock stats:
 - Open: 300.16
 - Close: 290.24
 - High: 300.28
 - Low: 289.82
- Focus on strong ecosystem of products and large customer base

Options Graphs



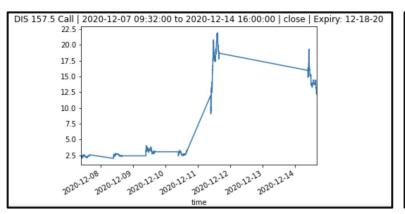


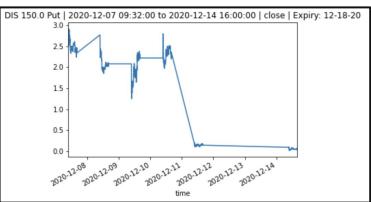
Key Takeaway: Value of stock went down, causing the calls to decrease in price and the puts to increase.

Disney Investor Day: General Information

- Investor Day on December 12th, 2020
 - Included financial estimates and statements
 - Emphasis on the increase in users of streaming platforms
 - Disney+, Hulu, and ESPN+ becoming more important in the industry and amassing more subscribers

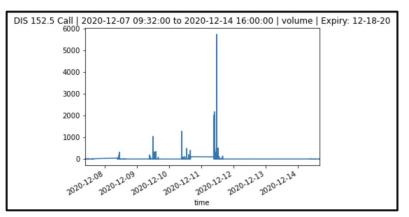
Disney Investor Day: Close Prices

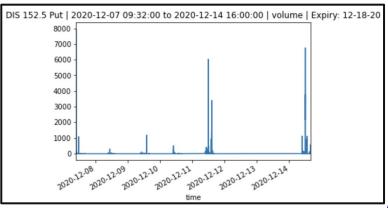




 Key Takeaway → opposing movement in call and put close prices, whereby put prices are more volatile before the investor day

Disney Investor Day: Volume Graphs





 Key Takeaway → spikes in call and put volume graphs occur at similar intervals, with little volatility consistently before or after investor day

What We Learned

- Certain relationships are to be expected in these graphs
 - Opposing movements of call and put prices
- Understanding a company's statements on Investment Days allow us to better understand the nature of these relationship
- May be difficult to differentiate between volatility as a result of Investor Days and as a result of volatility that naturally occurs in these prices
- QuantConnect
- GitHub
- Pandas

Challenges

- Utilizing the Quantconnect platform
 - Handling equities vs options
 - Handling different time periods
 - Manipulating dataframes to gather necessary data
 - Calculating implied volatility
- Graphing data
 - Using pandas and matplotlib to graph various data on investor days

Next Steps

- Is there a significant enough relationship that we can capitalize on changes in price due to Investor Days?
- Better understand the relationship between Investor Day information and direction of movements → Can we quantify this?
- Look at changes in implied volatility of options

Thank you!