

Analysis Portfolio Investment



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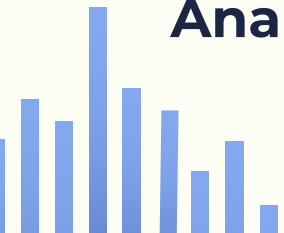
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The background features a light cream color with various financial-themed elements. In the top left, there is a faint candlestick chart. A blue line graph with an upward-pointing arrow starts from the left edge and extends towards the top center. In the top right, there is a vertical bar chart with blue bars of varying heights. Three blue coins with dollar signs (\$) are scattered around: one large one in the top right, one medium one in the middle right, and one large one in the bottom left. At the bottom, there are two more faint charts: a bar chart on the left and a line graph with an upward arrow on the right.

01

**Portfolio
Allocation**

Recommended Portfolio Allocation

After conducting a thorough analysis, the chosen companies are:

% Inv	Amount	Stock	Industry
30%	\$30,000	Apple Inc. (AAPL)	Technology
25%	\$25,000	Amazon.com Inc. (AMZN)	E-commerce
20%	\$20,000	Johnson & Johnson (JNJ)	Healthcare
15%	\$15,000	Visa Inc. (V)	Finance
10%	\$10,000	Walmart Inc. (WMT)	Retail



The background features a light green gradient with various financial-themed elements. In the top left, there is a white candlestick chart. A blue line graph with an upward-pointing arrow starts from the left and extends towards the top center. In the top right, there is a blue candlestick chart. Three blue coins with dollar signs (\$) are scattered around: one large one in the top right, one medium one in the middle right, and one large one in the bottom left. At the bottom, there are two more blue line graphs with upward-pointing arrows, one on the left and one on the right. In the center, there are three concentric light gray circles.

02

Environmental Analysis per Industry



SWOT – Technology Sector



The technology industry encompasses companies that develop and provide products and services related to technology, software, hardware, electronics, and telecommunications

Strengths

- Continuous Innovation
- Strong Market Demand
- Global Reach

Opportunities

- Artificial Intelligence (AI)
- Internet of Things (IoT)
- Cloud Computing

Weaknesses

- Rapid Obsolescence
- Security Concerns
- Regulatory Challenges

Threats

- Competition
 - Regulatory Scrutiny
 - Data Privacy
- 
- 



SWOT – E-commerce Sector



The e-commerce industry involves buying and selling goods and services online, including retail, marketplace platforms, and online payment systems

Strengths

- Convenience
- Global Reach
- Data Analytics

Opportunities

- Mobile Commerce
- Personalization
- Emerging Markets

Weaknesses

- Fulfillment Challenges
- Security Risks
- Competition

Threats

- Brick-and-Mortar Resurgence
 - Regulatory Change
- 
- 



SWOT – Healthcare Sector

The healthcare industry includes medical services, pharmaceuticals, medical equipment, and health technology companies.

Strengths

- Essential Services
- Technological Advances
- Aging Population

Opportunities

- Telemedicine
- Personalized Medicine
- Preventive Care

Weaknesses

- Rising Costs
- Regulatory Complexity
- Skill Shortages

Threats

- Healthcare Access
 - Data Security
 - Regulatory Uncertainty
- 



SWOT – Finance Sector



The finance industry includes banking, insurance, investment, asset management, and financial technology (fintech) companies.

Strengths

- Financial Services Demand
- Technological Adoption
- Global Presence

Opportunities

- Digital Banking
- Blockchain Technology
- Sustainable Finance

Weaknesses

- Market Volatility
- Regulatory Challenges
- Reputation Risk

Threats

- Economic Downturns
 - Cyber Threats
 - Regulatory Changes
- 



SWOT – Retail Sector



The retail industry involves the sale of consumer goods and services, including brick-and-mortar stores, e-commerce, and omnichannel approaches.

Strengths

- Consumer Demand
- Omni-channel Retailing
- Brand Recognition

Opportunities

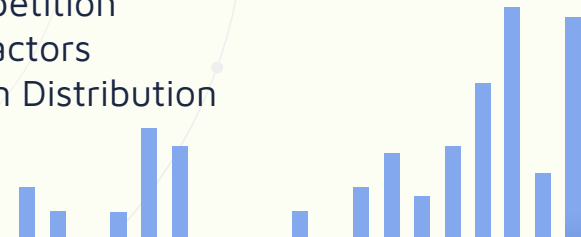
- E-commerce Integration
- Customer Experience
- Sustainable Practices

Weaknesses

- Changing Consumer Preferences
- Competitive Landscape
- Operational Costs

Threats

- Online Competition
- Economic Factors
- Supply Chain Distribution





03

Company Analysis



Company analysis

Apple

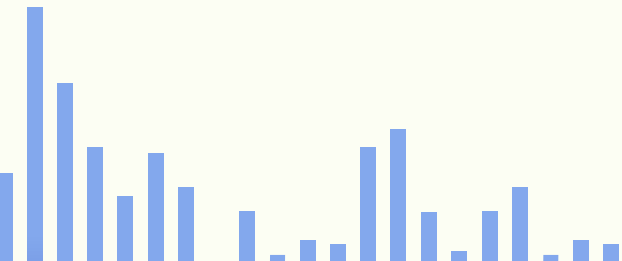
- Strong brand, consistent revenue growth, and diverse product ecosystem.
- Provides exposure to the technology sector's potential growth.

Amazon

- Dominant e-commerce and cloud computing player with a strong customer base.
- Offers exposure to the growing online retail and technology sectors.

J&J

- Healthcare conglomerate with a stable product portfolio and dividends.
- Provides stability and exposure to the healthcare sector





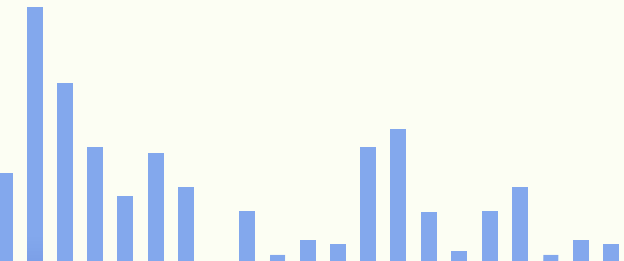
Company analysis (Cont.)


Visa

- Global payments technology company with a strong network and growth potential.
- Offers exposure to the financial services sector and digital payments.

Walmart

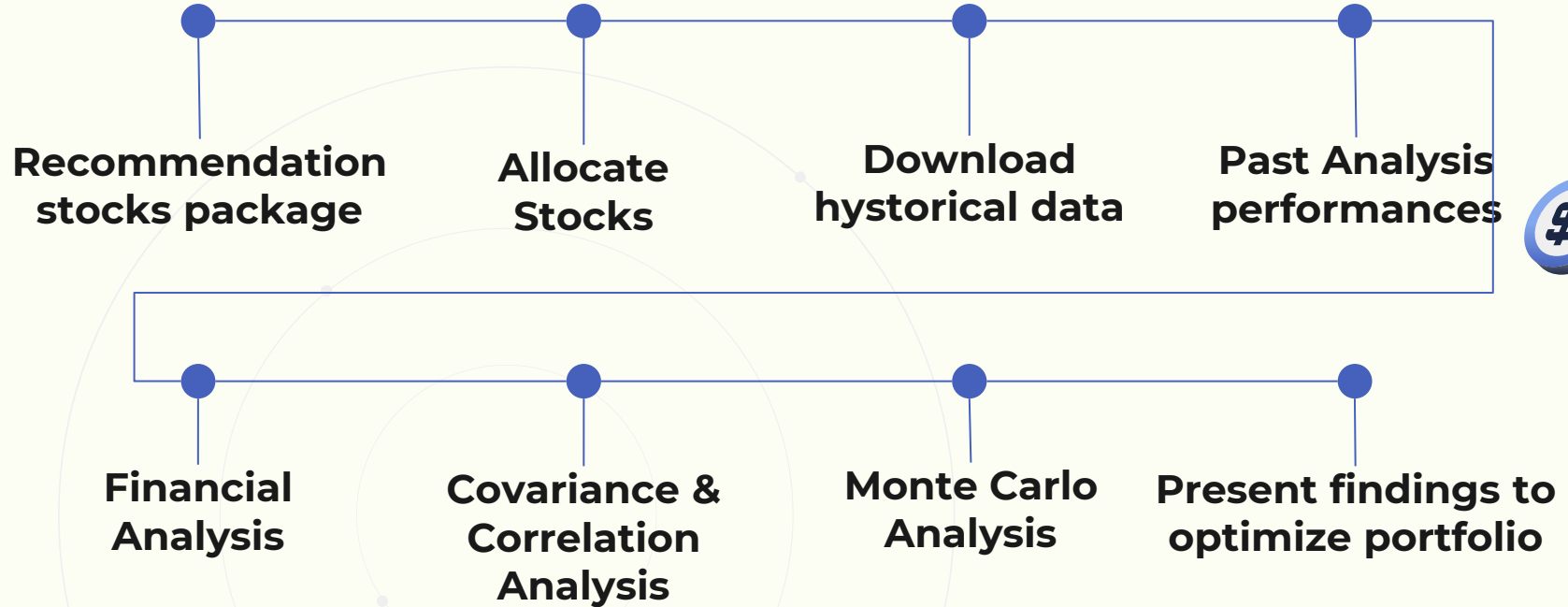
- Leading retailer with a mix of physical and digital presence.
- Provides exposure to the retail sector and consumer spending trends.





**Perform analysis to
optimize portfolio -
roadmap**

How we achieve investment success?



The background features a light green gradient with various financial-themed elements. In the top left, there is a cluster of vertical bars in white and light blue, resembling a bar chart. A blue line graph with an upward-pointing arrow starts from the left and extends towards the top center. In the top right, there is another cluster of vertical bars, mostly in dark blue. A large, 3D-style blue coin with a white dollar sign (\$) is positioned in the upper right quadrant. In the bottom left, there is a large, 3D-style blue coin with a white dollar sign (\$). In the bottom right, there is a smaller 3D-style blue coin with a white dollar sign (\$). A blue line graph with an upward-pointing arrow starts from the bottom right and extends towards the top right. The central text is surrounded by two concentric light green circles.

04 Financial Analysis

Financial Ratios

Are used to evaluate the financial performance and health of a company. They provide insights into various aspects of a company's operations, profitability, liquidity, solvency, and efficiency

Ratios / Stocks	AAPL	AMZN	JNJ	V	WMT
Price-to-Earnings (P/E)	1.08	1.10	1.23	1.67	1.08
Return on Equity (ROE)	0.12%	0.07%	0.04%	0.05%	0.05%
Debt-to-Equity (D/E)	1.55	1.55	1.55	1.55	1.55
Outlook	Moderate P/E -> Fair Valuation Positive ROE -> effective use of equity High D/E -> higher debt relative to equity	Moderate P/E -> Fair Valuation Positive ROE -> effective use of equity High D/E -> higher debt relative to equity	Moderate P/E -> Fair Valuation Positive ROE -> effective use of equity High D/E -> higher debt relative to equity	Moderate P/E -> Fair Valuation Positive ROE -> effective use of equity High D/E -> higher debt relative to equity	Moderate P/E -> Fair Valuation Positive ROE -> effective use of equity High D/E -> higher debt relative to equity

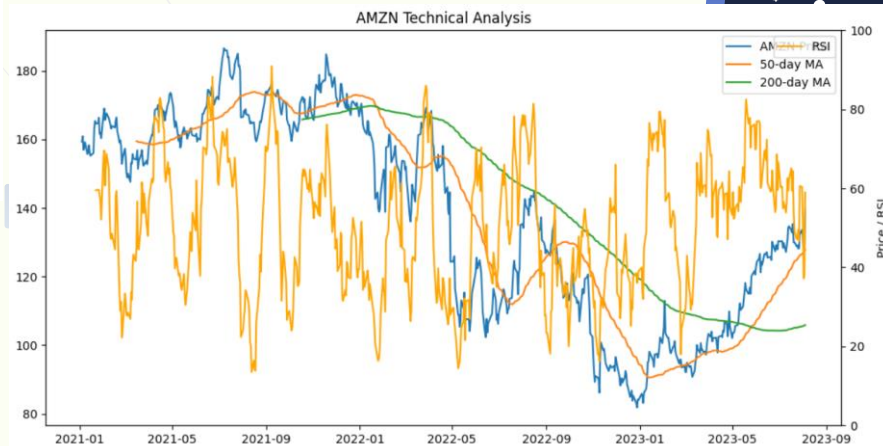
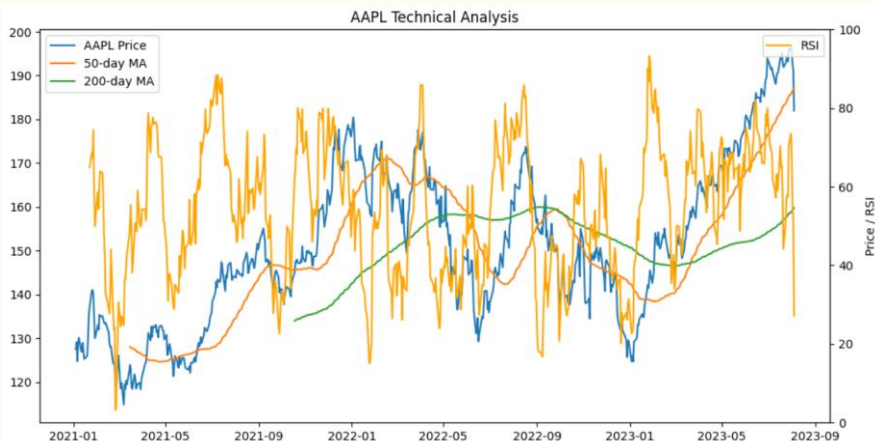
The background features a light yellow-green gradient. It is decorated with various financial-themed elements: a blue line graph with an upward-pointing arrow in the top-left and bottom-right corners; a bar chart with blue and white bars in the top-left and bottom-left corners; and three 3D blue dollar coins with black dollar signs, one in the top-right, one in the middle-right, and one in the bottom-left. In the center, there are three concentric light-blue circles. The text '05 Technical Analysis' is centered within these circles.

05 Technical Analysis

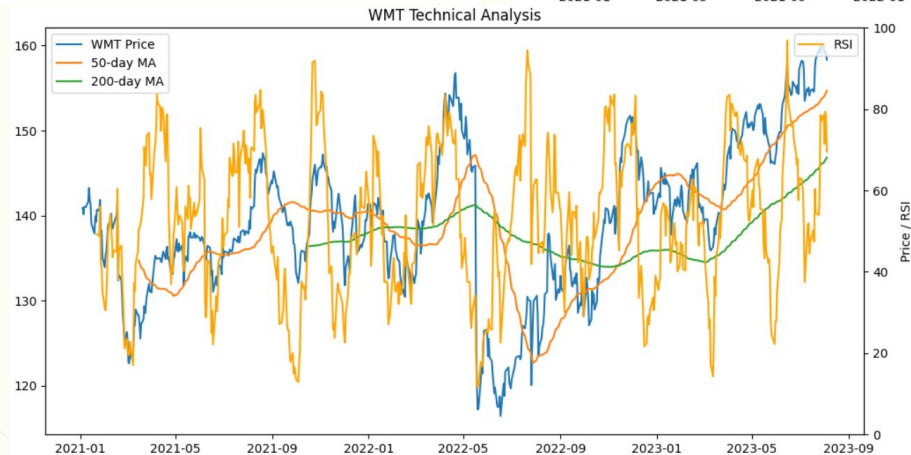
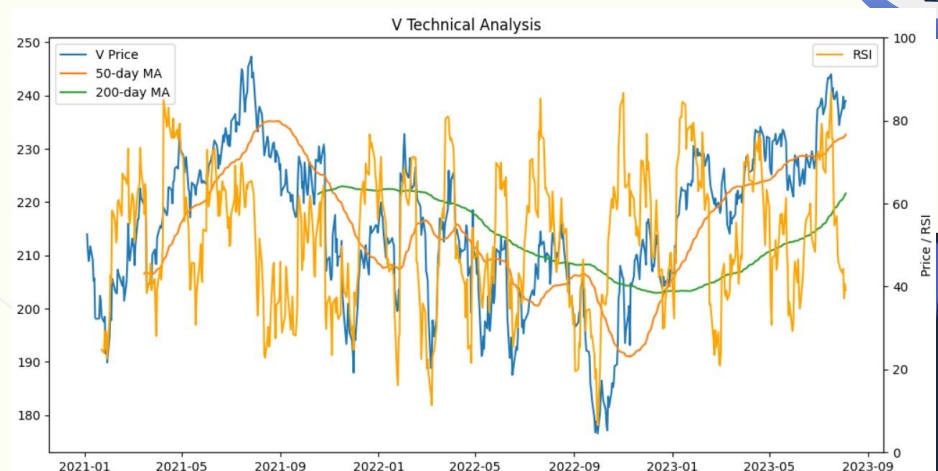
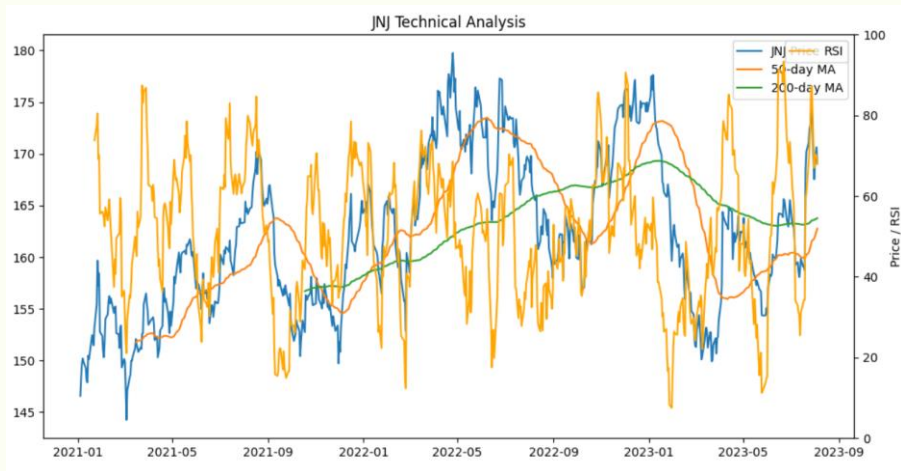
Past performances stocks

Past performances stocks

Technical analysis involves studying historical price and volume data to forecast future price movements
In summary, technical analysis involves studying price patterns and indicators to make short-term trading decisions



Past performances stocks



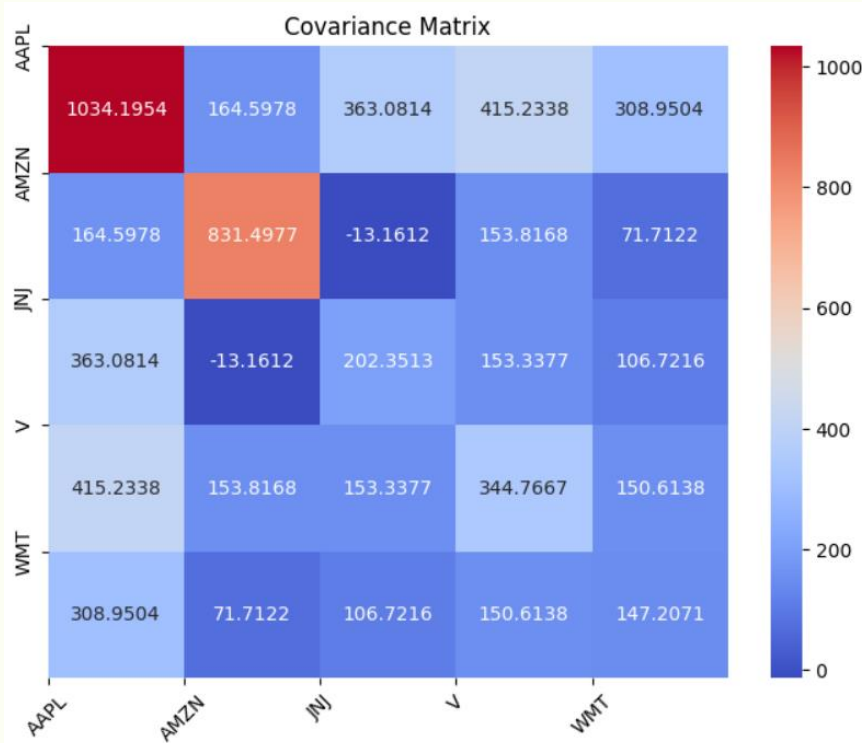


05 Technical Analysis

Covariance and Correlation matrix

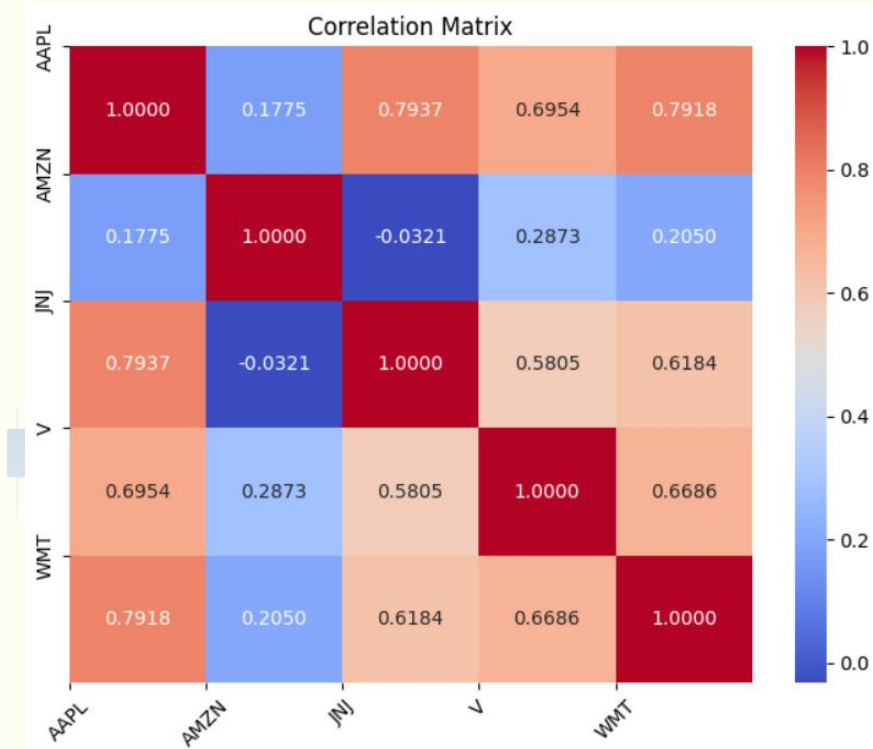
Covariance Matrix

For stock prices involves understanding how different stocks in a portfolio move in relation to each other. The covariance matrix provides insights into the relationships between pairs of stocks based on their historical price movements



Correlation Matrix

For stocks' prices is a statistical tool used to measure the degree of linear relationship between the price movements of different stocks in a portfolio. It quantifies how closely the price changes of two stocks move together or in opposite directions over a given period.



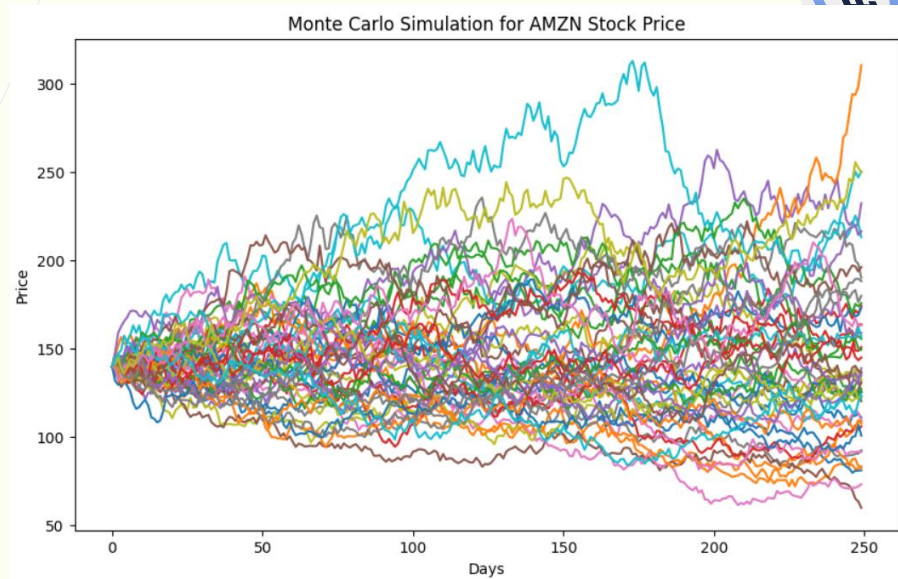
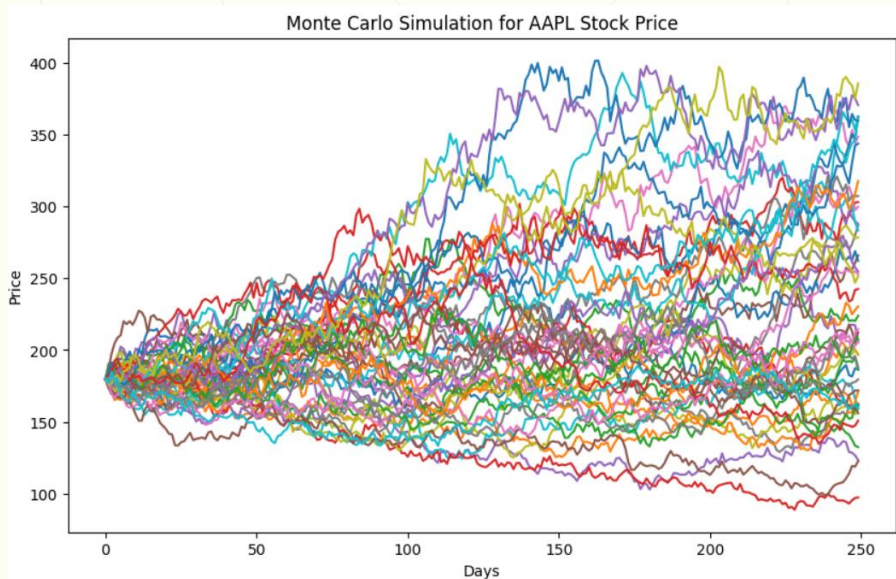


05 Technical Analysis

Monte-Carlo Simulation

Monte-Carlo Simulation

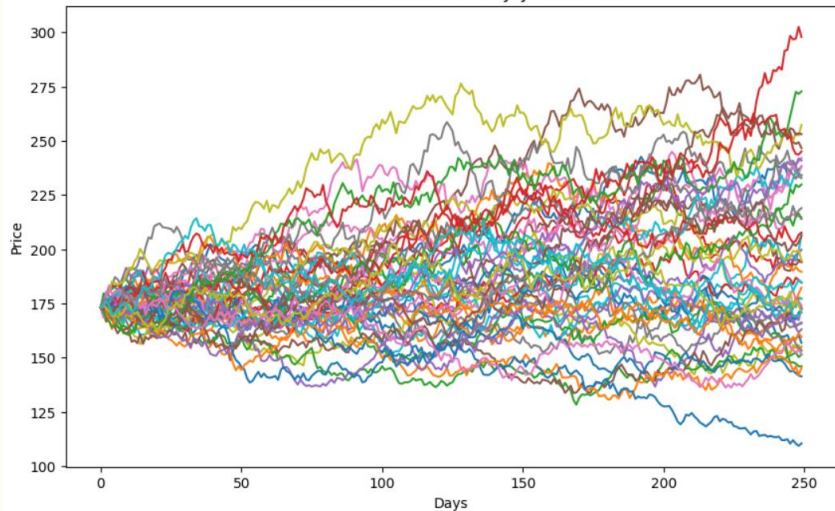
Is a computational technique used to model the behavior of complex systems or processes by simulating random variables.



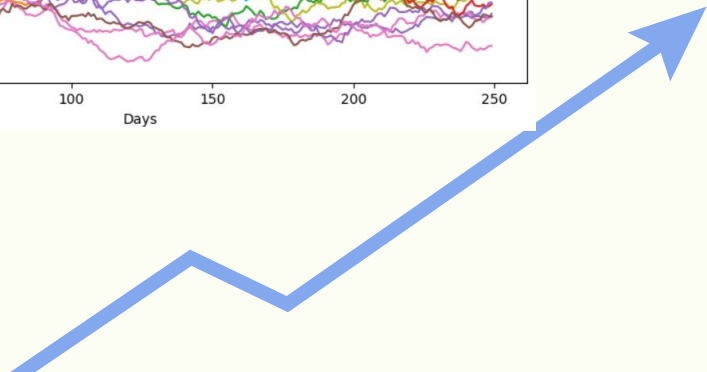
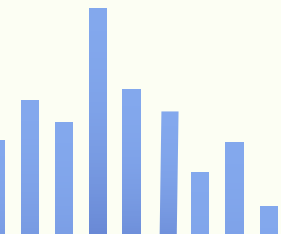
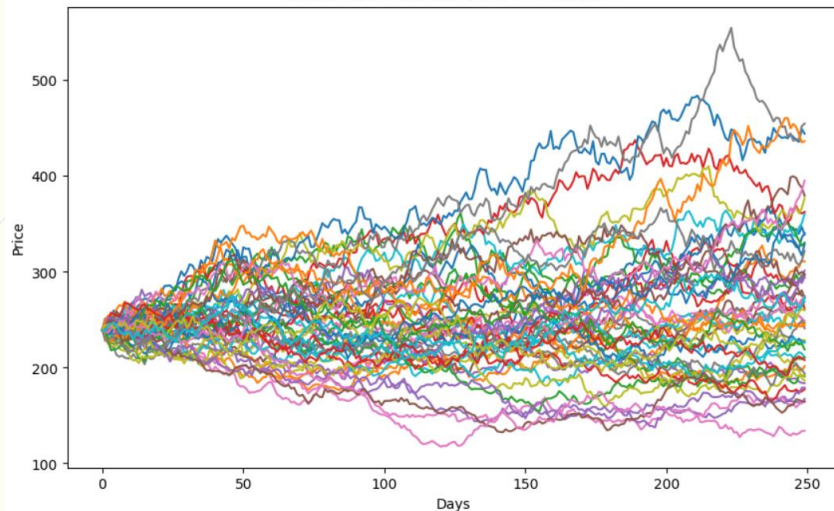
Monte-Carlo Simulation



Monte Carlo Simulation for JNJ Stock Price



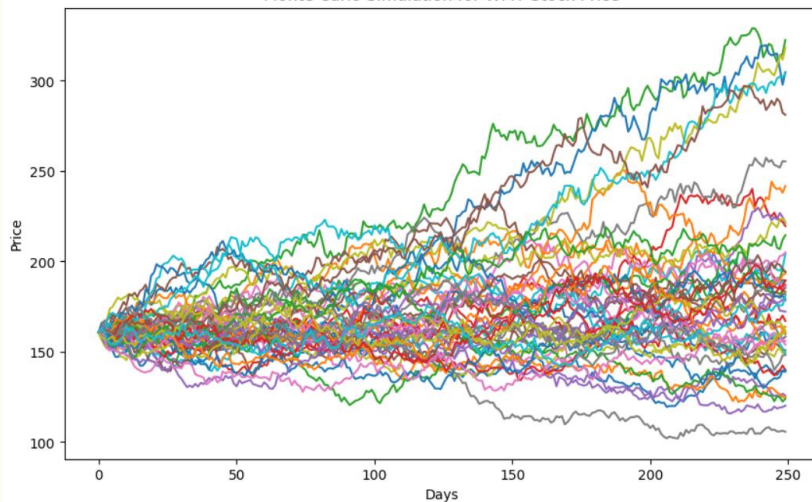
Monte Carlo Simulation for V Stock Price



Monte-Carlo Simulation



Monte Carlo Simulation for WMT Stock Price



	APPL	AMZN	JNJ	V	WMT
Mean	204.64	145.56	185.85	250.99	172.73
Max	401.45	312.84	302.49	554.84	329.04
Min	88.92	59.90	109.36	117.37	101.98
Per.5%	138.22	94.94	146.87	165.45	136.87
Per.95%	316.53	209.33	237.74	351.56	230.91

The background features a light cream color with various financial-themed elements. In the top left, there is a cluster of vertical bars in white and light blue, resembling a bar chart. A blue line graph with an upward-pointing arrow starts from the left edge and extends towards the top center. In the top right, another set of vertical bars is shown, with a blue coin featuring a dollar sign (\$) floating below them. In the bottom left, a large blue coin with a dollar sign (\$) is positioned. In the bottom right, a blue line graph with an upward-pointing arrow starts from the bottom edge and extends towards the right. In the center, there are three concentric circles in a light gray color. The number '06' is placed within the middle circle, and the word 'Recommendations' is placed across the bottom circle.

06

Recommendations



Recommendations

Diversification: Consider rebalancing the portfolio to achieve an optimal mix of assets

Risk Management: Adjust portfolio allocations or strategies to manage risk exposure based on the simulation results.

Valuation and Fair Value Assessment: Take advantage of the fundamental analysis, including P/E ratios, ROE, and D/E ratios, to assess the fair value of each stock.

Scenario Planning: Use Monte Carlo simulation to test different investment scenarios and strategies

Regular Monitoring and Rebalancing: Continuously monitor the portfolio's performance and regularly rebalance it to maintain the desired asset allocation

Long-Term vs. Short-Term Strategies



Thank you!

