

TradingAgents: Multi-Agents LLM Financial Trading Framework

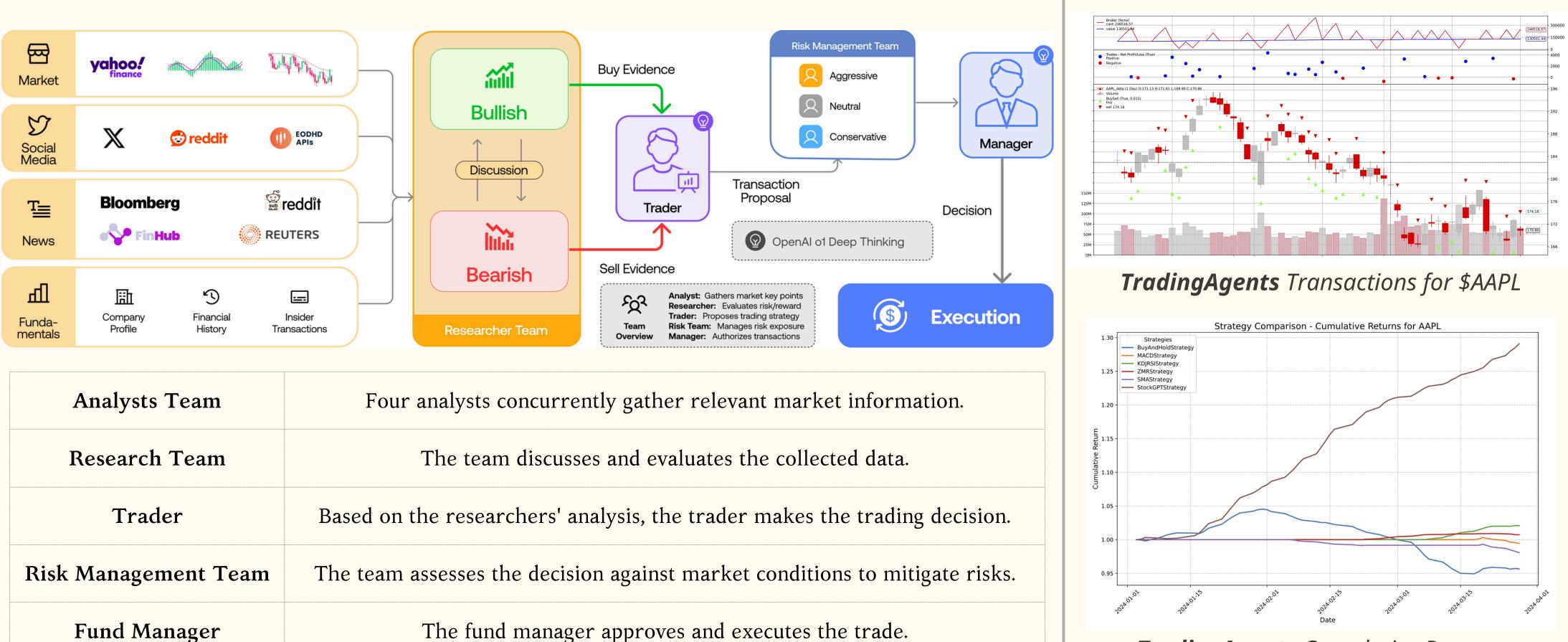
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TradingAgents Overview

- Novel trading framework *TradingAgents* inspired by real-world trading firms.
- LLM-powered agents in *specialized roles* for financial information preprocessing
- Bull & Bear *researchers* assess market conditions, traders synthesize insights.
- The team of *risk management* ensures controlled exposure.
- Improves trading performance via dynamic collaboration.

Key Features

- Structured multi-agent workflow for decision-making.
- Hybrid communication: structured outputs + natural language debates.
- Diverse agent roles (analysts, researchers, traders, risk managers).

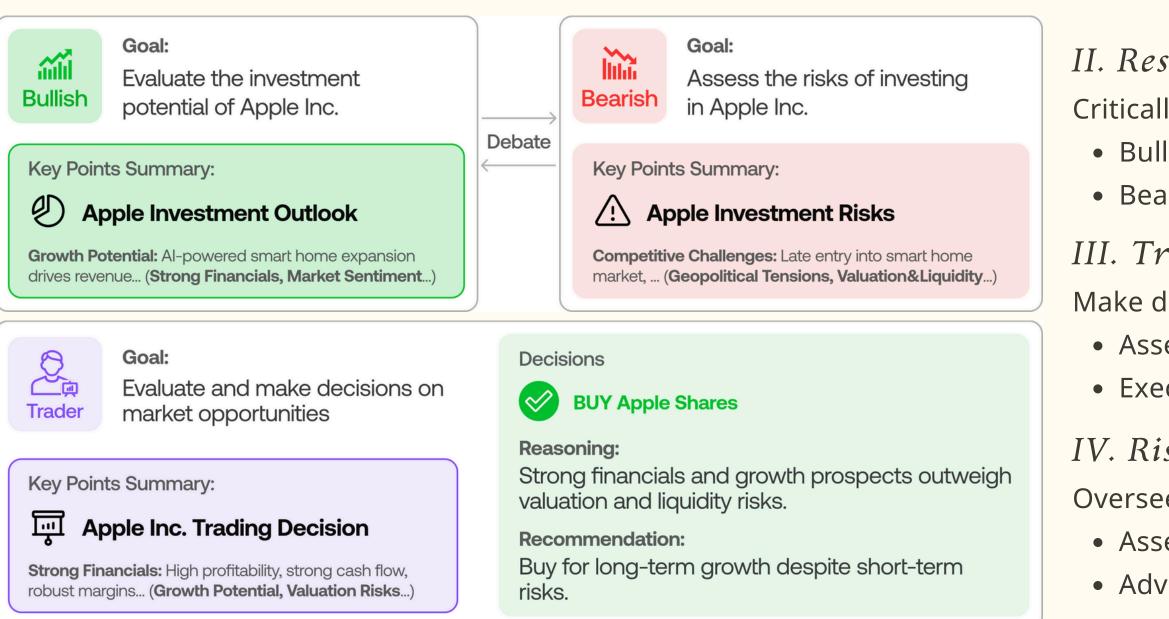


Research Team	
Trader	Based
Risk Management Team	The tea

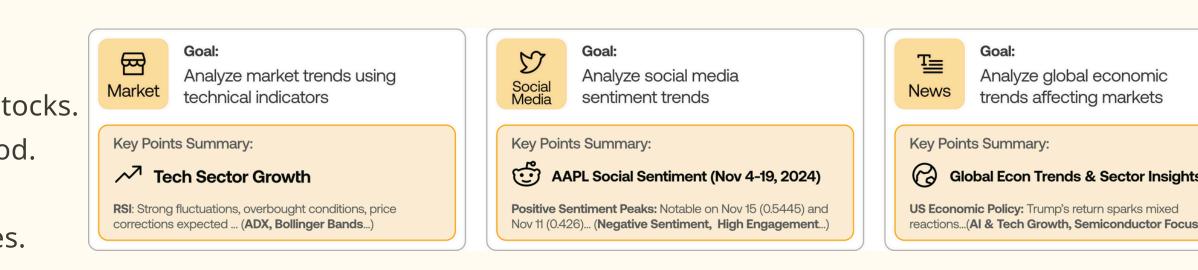
I. Analyst Team

The Analyst Team gathers and analyzes market data across various domains:

- Fundamental Analysts: Assess fundamentals to identify undervalued or overvalued stocks.
- Sentiment Analysts: Analyze social media and public sentiment to gauge market mood.
- News Analysts: Evaluate news and macroeconomic to predict market movements.
- Technical Analysts: Use technical indicators to forecast price trends and opportunities.



Paper



II. Researcher Team

Critically evaluates analyst data through a dialectical process, identifying opportunities & risks. • Bullish Researcher: Highlight positive market indicators & growth potential. • Bearish Researcher: Focus on risks and negative market signals.

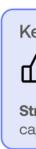
III. Trader Agents

Make decisions based on analyst team reports and research team discussion and evaluations. • Assessing analyst and researcher recommendations | Determining trade timing and size. • Executing buy/sell orders | Adjusting portfolios in response to market changes.

IV. Risk Management Team & Manager

Oversees the firm's exposure to market risks, ensuring risk under control. • Assessing market volatility and liquidity | Implementing risk mitigation strategies. • Advising Trader Agents on risk exposures | Aligning portfolio with risk tolerance.









Code

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TradingAgents Cumulative Returns

	Goal: Funda- mentals Goal: Analyze&evaluate company financials&stock performance		
ts ıs)	Key Points Summary: Apple Inc. Financial Analysis Strong Profitability: High margins, impressive ROE and ROA (Liquidity&Leverage Risks, Valuation Concerns)		
Q sky	Goal: Advocate for high-reward, high-risk investment strategies		
Q utral	Goal: Provide a balanced perspective on Apple investment		
Q afe	Goal: Emphasize a conservative investment strategy with risk mitigation		
	Report		
anager	Goal: Provide investment recommendations based on market analysis		
Tey Points Summary: D Buy Recommendation for Apple			

Strong Fundamentals: Robust earnings growth and market capitalization ... (Innovation Leadership, Resilience to Risks ...)