Portfolio: **Qraft Al-Powered US Factor Rotation**

Benchmark: SPDR® S&P 500® ETF Trust

As of 9/30/2024

Quarterly Model Portfolio Commentary

Global equity markets experienced significant volatility in Q3 2024 amid mixed economic signals, but still ended the quarter on a positive note. Unlike in Q2, U.S. inflation indicated clear signs of cooling during Q3. The PCE index rose by 2.2% year-over-year¹, while the CPI increased by 2.5% year-over-year². As a result, the Fed implemented its first rate cut in four years, reducing interest rate by 50 bps. Despite a concerning unemployment rate, U.S. GDP grew by 3%³. The ADP private sector employment change recorded an increase of 143,000 jobs⁴, while Nonfarm Payrolls rose by 159,000⁵, both figures recovering from concerning August figures. The resilient U.S. economy during this period of rate cuts, coupled with easing export restrictions, propelled the S&P 500 (+5.25%)⁶ and Dow Jones Industrial Average (+8.07%)⁷ to record highs. In contrast, the Nasdaq 100 (+1.25%)⁸ saw a more modest return compared to the other two major U.S. indices. Emerging market equities also surged, with the CSI 300° and the HSI¹⁰ both recording gains exceeding 15% during Q3; their strongest performance in over two years. This rebound was partially fueled by the Chinese government's announcement of an economic stimulus package estimated at around 7.5 trillion yuan (approximately US \$1.07 trillion), which revitalized the Chinese stock market in September. Conversely, the Nikkei 225 index in Japan experienced a retreat in Q3, attributed to the unwinding of the yen carry trade following the Bank of Japan's first rate hike in 17 years. In the fixed income market, Q3 saw positive performance from short-term bond ETF SHY (+2.3%¹¹), intermediate-term bond ETF IEF (+5.9%¹²), and long-term bond ETF TLT (+9.1%¹³), driven by the rate cut in September and expectations of further cuts. Overall, Q3 concluded with strong performances across both equity and bond markets in the U.S., with all major indices recording substantial growth.

For the quarter, Qraft Al-Powered US Factor Rotation model portfolio had a return of 5.13%, which was lower than the benchmark return of 5.86%. The portfolio's holdings comprise of an equities and a cash component. The portfolio maintained an neutral position on cash relative to the benchmark, allocating 0% towards cash throughout the quarter. The equities component had a return of 5.21% while the cash component had a return of 0.00%, resulting in an active return of -0.68% and 0.00% respectively. September was the highest performing month with a 3.12% return, while July saw lagging returns at -0.32%.

Oraft Al-Powered US Factor Rotation model portfolio seeks to exceed the return of the S&P 500 over time by rotating among a range of equity factor exposures (such as momentum, value, growth, low risk, and quality) and cash. The strategy aims to provide active exposure to a diversified basket of broad-based and factor ETFs and leverage Qraft's proprietary regime detection model that can dynamically increase its cash level up to 50% in an attempt to reduce market drawdowns. Qraft's proprietary Al engine utilizes a deep neural network to actively generate signals by analyzing macro variables such as interest rates and economic growth, among others, and their impact on factor exposures. Qraft's Al engine is constantly evolving based on new market trends and optimization of risk-adjusted returns, which may result in monthly rebalancing for the Qraft Al-Powered US Factor Rotation model portfolio.

¹ Personal Consumption Expenditures Index, U.S. Bureau of Economic Analysis, Sep 2024 ² Consumer Price Index, U.S. Bureau of Labor Statistics, Sep 2024 ³ Gross Domestic Product, Bureau of Economic Analysis, Sep 2024 ⁴ Change in U.S. Private Employment, ADP National Employment Report, Sep 2024 ⁵ U.S. Non Farm Payrolls, Trading Economics, Sep 2024 ⁶ S&P 500, Morningstar, Sep 2024 ⁷ Dow Jones Industrial Average, Morningstar, Sep 2024 ⁸ Nasdaq 100, Morningstar, Sep 2024 ⁹ CSI 300 Index, Morningstar, Sep 2024 ¹⁰ Hang Seng Index, Morningstar, Sep 2024 ¹¹ iShares 1-3 Year Treasury Bond ETF, Morningstar, Sep 2024 ¹² iShares 7-10 Year Treasury Bond ETF, Morningstar, Sep 2024 ¹³ iShares 20+ Year Treasury Bond ETF, Morningstar, Sep 2024

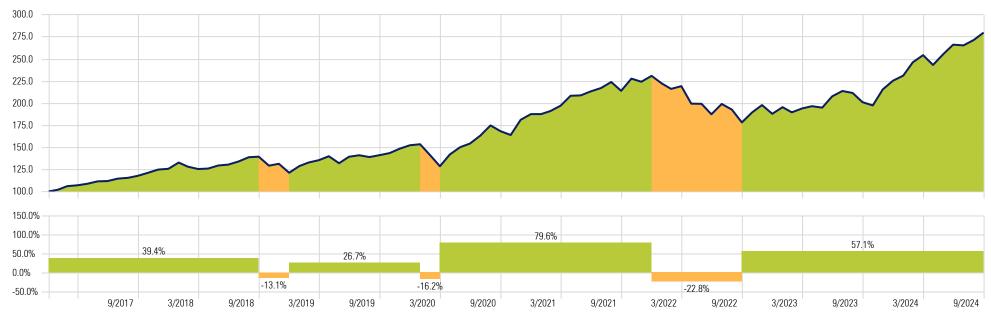
Trailing Returns

Data Point: Return Calculation Benchmark: SPDR® S&P													
	1 Month	3 Months	6 Months	YTD	1 Year	3 Years	5 Years						
Qraft AI-Powered US Factor Rotation	3.12	5.13	10.06	24.19	39.23	30.84	98.48						
SPDR® S&P 500® ETF Trust	2.12	5.86	10.35	21.96	36.16	39.80	109.05						

Investment Growth

Time Period: 1/4/2017 to 9/30/2024

Define drawdown as decline by 10% or more



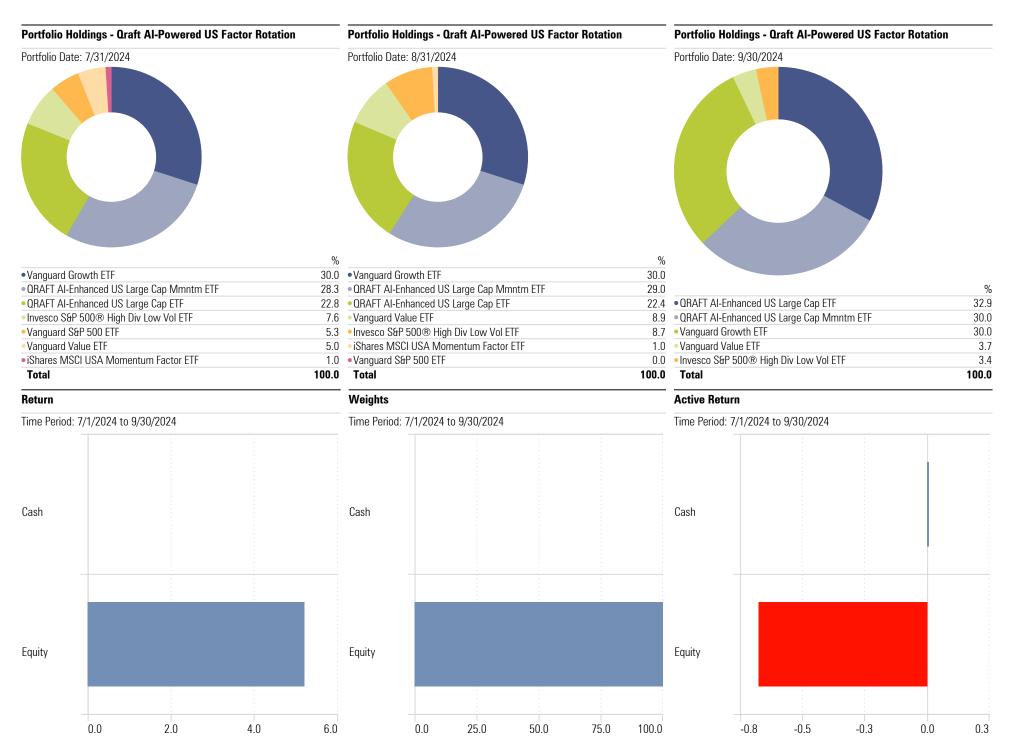
- Qraft Al-Powered US Factor Rotation

Contraction

Expansion

Monthly Returns - Qraft Al-Powered US Factor Rotation										Monthly Returns - SPDR® S&P 500® ETF Trust																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2024	2.56	6.55	3.27	-4.36	5.03	4.22	-0.32	2.28	3.12				24.19	2024	1.67	5.33	3.21	-4.09	4.94	3.57	1.21	2.41	2.12				21.96
2023	4.01	-3.00	2.31	1.34	-0.85	6.56	2.94	-1.06	-4.94	-1.83	9.18	4.59	19.96	2023	6.27	-2.44	3.67	1.55	0.43	6.58	3.20	-1.60	-4.77	-2.11	9.11	4.52	26.14
2022	-3.73	-2.76	1.44	-9.05	-0.08	-5.96	6.24	-3.23	-7.53	6.38	4.38	-5.01	-18.61	2022	-5.18	-3.00	3.70	-8.72	0.17	-8.22	9.21	-4.07	-9.21	8.08	5.56	-5.74	-18.14
2021	0.01	1.83	3.19	5.69	0.23	2.15	1.79	3.15	-4.47	6.46	-1.56	2.97	23.09	2021	-1.02	2.75	4.37	5.33	0.69	2.33	2.37	3.03	-4.65	6.99	-0.70	4.47	28.59
2020	0.78	-7.74	-9.22	10.37	5.79	2.79	5.77	7.13	-3.73	-2.60	10.49	3.59	23.19	2020	-0.05	-8.21	-12.26	12.80	4.74	1.97	5.63	7.17	-3.79	-2.66	10.93	3.83	18.40
2019	6.27	3.11	2.02	3.27	-5.65	5.57	1.21	-1.45	1.53	1.69	3.44	2.64	25.70	2019	7.99	3.20	1.93	4.04	-6.34	7.01	1.43	-1.59	1.86	2.15	3.62	3.00	31.29
2018	5.63	-3.53	-2.08	0.43	2.75	0.77	2.72	3.60	0.46	-7.31	1.64	-7.74	-3.57	2018	5.71	-3.69	-2.55	0.38	2.40	0.60	3.70	3.24	0.56	-6.84	2.03	-8.98	-4.45
2017	—	3.96	0.93	1.62	2.50	0.30	2.47	0.79	2.01	2.95	2.92	0.71	—	2017	1.89	3.96	0.10	1.02	1.40	0.61	2.05	0.30	2.06	2.32	3.05	1.10	21.69

Source: Morningstar Direct



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