Capital Asset Pricing Model

Choose 4 stocks

| NFLX | NVDA | AAPL | AMZN | ⊗ ⌄ |

Number of years

| 3 | − | + |

Dataframe head

	Date	NFLX	NVDA	AAPL	AMZN	sp500
0	2020-06-15 00:00:00	425.5	91.7375	85.7475	128.634	3,066.59
1	2020-06-16 00:00:00	436.13	90.685	88.02	130.7635	3,124.74
2	2020-06-17 00:00:00	447.77	92.36	87.8975	132.049	3,113.49
3	2020-06-18 00:00:00	449.87	92.18	87.9325	132.699	3,115.34
4	2020-06-19 00:00:00	453.72	92.6125	87.43	133.7505	3,097.74

Dataframe tail

	Date	NFLX	NVDA	AAPL	AMZN	sp500
749	2023-06-06 00:00:00	399.29	386.54	179.21	126.61	4,283.85
750	2023-06-07 00:00:00	399.77	374.75	177.82	121.23	4,267.52
751	2023-06-08 00:00:00	409.37	385.1	180.57	124.25	4,293.93
752	2023-06-09 00:00:00	420.02	387.7	180.96	123.43	4,298.86
753	2023-06-12 00:00:00	423.97	394.82	183.79	126.57	4,338.93

Price of all the Stocks

Calculated Beta Value

	Stock	Beta Value
0	NFLX	6.61
1	NVDA	0.12
2	AAPL	0.04
3	AMZN	0.02
4	sp500	1.0

Price of all the Stocks(After Normalizing)
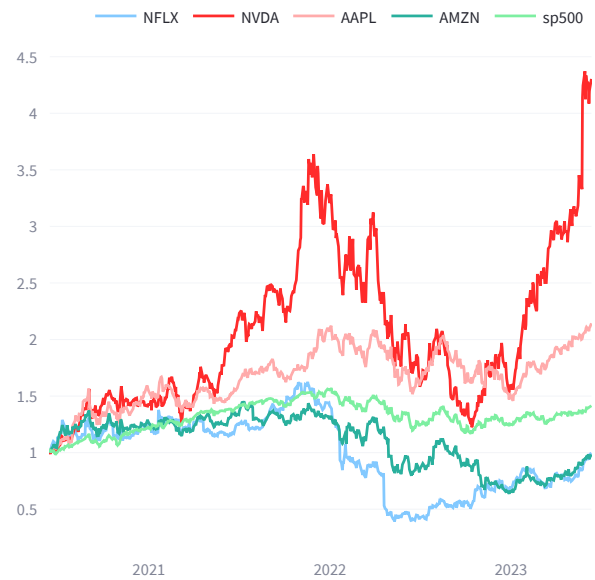
Calculated Return using CAPM

	Stock	Return Value
0	NFLX	-6,708,110.1
1	NVDA	-123,099.25
2	AAPL	-42,298.57
3	AMZN	-16,557.14

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