## **Risk Assessment Report**

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### **Executive Summary**

Total Portfolio Value: \$828969.34

Portfolio VaR (95%): \$11600.09 (1.40%)

Portfolio ES (95%): \$29906.29 (3.61%)

Diversification Benefit: 42.92%

### **Market Data Summary**

Period: 2023-01-02 to 2023-12-29

Symbol	Latest Price	Period Return	Annualized Volatility	Avg Daily Volume
AAPL	\$772.10	-1.52%	26.29%	5,745,859
MSFT	\$106.98	-21.91%	29.66%	5,250,732
AMZN	\$270.44	0.91%	18.14%	5,395,642

Symbol	Latest Price	Period Return	Annualized Volatility	Avg Daily Volume
GOOGL	\$1265.32	29.91%	17.22%	5,505,002
META	\$154.31	-30.49%	29.43%	5,807,683

# Portfolio Risk Analysis

### Trade Level Risk

Symbol	Position Value (\$)	VaR (95%)	ES (95%)	Loss Prob (5%)	Loss Prob (10%)
AAPL	\$378328.68	\$10656.64 (2.82%)	\$14022.48 (3.71%)	0.00%	0.00%
MSFT	\$24926.23	\$801.93 (3.22%)	\$990.59 (3.97%)	0.77%	0.00%
AMZN	\$21365.08	\$409.55 (1.92%)	\$498.39 (2.33%)	0.00%	0.00%
GOOGL	\$318860.26	\$5381.87 (1.69%)	\$7131.63 (2.24%)	0.00%	0.00%
МЕТА	\$85489.08	\$3073.46 (3.60%)	\$3543.85 (4.15%)	0.00%	0.00%

### **Stress Test Results**

Scenario	Mean Return	Median Return	Return StdDev	VaR (95%)	ES (95%)	Max Loss	Prob of Loss
Base Case	nan%	nan%	nan%	nan%	nan%	nan%	0.00%
Market Crash	nan%	nan%	nan%	nan%	nan%	nan%	0.00%

## **Market Sentiment Analysis**

Symbol	Latest Sentiment	Positive Score	Negative Score	Avg Sentiment	Return Correlation
AAPL	0.94	0.94	0.00	0.09	0.09
MSFT	-0.94	0.00	0.94	-0.13	-0.17
AMZN	0.95	0.95	0.00	0.10	0.04
GOOGL	-0.96	0.00	0.96	-0.08	0.02
META	-0.97	0.00	0.97	-0.15	-0.06

### **Sentiment Impact Analysis**

The correlation between news sentiment and price movements indicates a weak positive relationship.

## **Machine Learning Risk Predictions**

#### **Predicted Risk Metrics (Next 10 Days)**

Symbol	Predicted Volatility	Predicted VaR (95%)	Predicted ES (95%)
AAPL	4.93%	\$97186.20 (25.69%)	\$3204659.11 (847.06%)
MSFT	4.28%	\$5607.62 (22.50%)	\$184908.11 (741.82%)
AMZN	3.29%	\$3760.39 (17.60%)	\$123996.54 (580.37%)
GOOGL	1.99%	\$33034.46 (10.36%)	\$1089292.38 (341.62%)
META	4.77%	\$20950.69 (24.51%)	\$690837.07 (808.10%)
Portfolio	-	\$160539.36 (19.37%)	\$5293693.21 (638.59%)

### Recommendations

• Positive market sentiment detected. Market conditions appear favorable but remain vigilant for sentiment shifts.

#### Disclaimer

This report is for informational purposes only and does not constitute investment advice. Past performance is not indicative of future results. All investments involve risk, including the possible loss of principal.