**PORTFOLIO OPTIMIZER**

1. Introduction: The portfolio optimizer accepted your inputs and analyzed historical data for the past 20 years. Audience for this report are financial analysts and investors. Based on our analysis below is your report around returns, comparative benchmarks and optimized portfolio suggestions. ~~Stocks selected to optimize: {{MSFT, APPL, F, GS, NVDA}}~~
2. Portfolio overview
   1. Image 1: plot(individual\_stock\_trends)
   2. Image 2: plot(correlation matrix)
   3. Image 3: plot(box\_whisker)
   4. Image 3: plot(cumulative returns)
   5. Image 4: Plot(monte\_carlo\_simulations)
   6. Image 5: Plot(certain confidence\_interval)
   7. ~~Image 1: All stocks with index and funds~~
   8. ~~Image 1: Portfolio cumulative returns vs. index and funds~~
   9. Text: Based on the simulation, above charts, investment amount of {{10,000}} and for an investment horizon of {{3 years}} the expected range of projected cumulative returns for the portfolio is between {{x}} and {{y}} with a {{24%}} chance of occurring
   10. ~~Table: TBD~~
3. Portfolio optimization
   1. Table 1: Random weights optimized portfolio for risk return
   2. Table 2: Allocations for each portfolio
   3. Table 3: Individual stocks returns
   4. Text: Suggestion based on risk level
   5. ~~Table 4: Portfolio Ratios~~
4. ~~Summary~~
   1. ~~Based on your risk profile, investment amount and investment horizon below are our recommendations~~
      1. ~~Returns with current mix~~
      2. ~~Comparisons to S&P~~
      3. ~~Our suggested allocations~~
      4. ~~Individual stock returns~~

Thanks for using our portfolio optimizer and have a great day!

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