Ally Invest Robo Portfolios

Monte Carlo Assumptions and Methodology

IMPORTANT: The projections or other information generated by the goal tracker tool regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results, and are not guarantees of future results. A number of factors make the calculated results uncertain, including the use of assumptions about inflation, returns and volatility of the market, and the investments underlying the portfolio. Advisory fees, fund expenses, and other fees are not included in the calculation and, if they were included, would reduce the returns. Results may vary with each use and over time.

Introduction

The goal tracker tool is designed to help show the possible future investment performance of an investment portfolio as well as track progress toward an investment goal. Using Monte Carlo simulation, this tool projects how your portfolio may perform over a range of various market outcomes, based upon the composition of your portfolio, your investment time horizon, and any contributions.

The tool also allows you to simulate the impact of any changes to these variables on your portfolio, so that you can make more informed decisions about your goals. It is important to note that this tool relies upon assumptions of capital market returns to provide hypothetical projections, does not reflect actual results, and is not a guarantee of future results. Results may vary with each use and over time.

What is Monte Carlo Simulation?

Monte Carlo simulation is a statistical technique that performs risk analysis by simulating a range of possible values, in this case capital market return estimates, among other things. The simulation uses variable inputs resulting in randomized return estimates used to create a probability of returns over time. Because Monte Carlo simulation depends upon the number of uncertainties and the values applied to them, a single Monte Carlo simulation involves thousands of iterations of possible outcomes before it is complete. This tool performs 10,000 simulations per projection.

The benefit of this technique is that we can provide a comprehensive view of possible outcomes for your portfolio. We tell you not only what can happen, but also the probability of each outcome. This provides a more realistic projection over a simple linear, compound return projection.

Projection Methodology

The goal tracker tool available to existing Robo Portfolio clients is intended to show possible future portfolio values in order to illustrate the impact of different contribution decisions, investment time horizons, and portfolio allocations. Actual individual investor performance will vary depending on market performance, the time of the initial investment, amount and frequency of contributions or withdrawals, allocation changes, taxes, advisory fees, fund expenses, and other fees.

The graph displays a full spectrum of possible outcomes, categorized into shaded regions depending on the probability of occurrence. The graph is segmented into a median line, darker-shaded upper region, and lighter-shaded lower region. The center line represents the median expected outcome or 50th percentile, meaning 50% of scenarios performed better than this level, and 50% performed worse than this level. The darker-shaded region represents the 75-90th percentiles, and the lighter-shaded region represents the 10-25th percentiles, representing the most extreme expected outcomes. As an example, the 10th percentile represents a weak market scenario, with 90% of all simulations performing above this level. Likewise, the 90th percentile represents an exceptionally strong market scenario, with only 10% of scenarios performing at or above this level.

The tool also provides an indication of whether the portfolio is on track to meet the goal target. This status assumes average market performance, using the 50th percentile projected value at the end of the investment period. The goal is considered on track when the final projected portfolio value for the 50th percentile meets or exceeds the goal target. The goal is considered off track when the final projected value for the 50th percentile is less than the goal target. In the event your goal is off target, you may consider increasing your contributions to the portfolio or extending your time horizon should your circumstances permit. The goal target is a user input, is not a recommendation, and may not be sufficient to meet actual spending or income needs.

If the current projection is considered off track, the tool provides tips designed to help bring the goal back on target. Two alternatives are suggested: increasing the current balance via a one-time deposit or establishing a recurring monthly deposit. Recommendations are based on the 50th percentile final portfolio value reaching the goal target amount. Saving recommendations assume your current portfolio and are not adjusted for inflation.

Capital Market Assumptions

Expected returns are based upon capital market assumptions for the asset classes that represent the allocation parameters of the Robo Portfolio, rather than for the exchange-traded funds (“ETFs”) that represent the asset class. Capital market assumptions are based on 20 years of historical return data for the underlying asset classes. Capital market assumptions are updated annually.

Capital market assumptions are forecasts and subject to known and unknown risks, uncertainties, and other events which could result in the actual returns deviating substantially from our projections. Model outputs are not adjusted for inflation.
Limitations
Calculations assume the current model portfolio held. Positions held outside of the model portfolio, or any deviations from the model portfolio, will not be accounted for in our projections. If the Robo Portfolio changes over time or has different expected returns, outcomes may be adjusted. The tool is based upon current account value and does not take into consideration active recurring deposits or withdrawals. The model does not account for taxes, and all values are assumed to be pre-tax. The creation and results of any plan do not constitute legal or tax advice. You should consult with an attorney or an accountant for advice in those areas.

Market volatility may be more extreme than what is represented by the simulation. The accuracy of the simulation is reduced in periods of market crisis. The simulation does not consider all investments, and those not considered might have characteristics similar or superior to those analyzed in this report. The returns are not reflective of any specific product, and do not include any fees or expenses that may be incurred by investing in specific products. The actual returns of a specific product may be more or less than the returns used in this report. It is not possible to directly invest in an index. Financial forecasts, rates of return, risk, inflation, and other assumptions may be used as the basis for illustrations.

The simulation provides a snapshot of your current financial position and can help you to focus on your financial resources and goals, and to create a plan of action. Because the results are calculated over many years, small changes can create large differences in future results. You should use this information to help you focus on the factors that are most important to you.

Projections do not include advisory fees, fund expenses, or other fees, which if included would reduce performance. Inputs are for simulation purposes only and cannot be saved using the current version of the tool. Any actions desired as a result of interaction with the tool will need to be initiated outside of the tool. All inputs will be reset back to their original state upon exiting the tool.

Keep in Mind
All investments involve risk, including loss of principal. Asset allocation and diversification do not eliminate the risk of experiencing investment losses.

Ally Invest Advisors does not guarantee that the results of its advice, recommendations, or the objectives of a Robo Portfolio will be achieved. We make no assurance that the investment process will consistently lead to successful investing. Actual results of any individual client may differ substantially from any simulations shown for a portfolio and may include an individual client incurring a loss. Actual Robo Portfolio performance may differ as a result of account size, client-imposed investment restrictions, the timing of client investments, market, economic, and individual company considerations.

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