

Penggunaan Model *Black-Littermann* Dalam Optimasi Portofolio Untuk Investor Aktif Pada Saham dalam Indeks LQ45

Ridhwan Rifky Herlansyah¹, Deni Saepudin²

^{1,2}Fakultas Informatika, Universitas Telkom, Bandung

¹ridhwankiki@students.telkomuniversity.ac.id, ²denisaepudin@telkomuniversity.ac.id,

Abstract

In these modern era, it is very easy to create an investment portfolio, an investment portfolio can be formed by buying a shares. By creating portfolio investment, our can expect score return which makes it an advantage. However, there is also a risk value that will be obtained when buy shares. In the formation of an investment portfolio for active investors, it is expected to create an optimal investment portfolio, there are many models that can be used to create an optimal investment portfolio. In this final project, will discusses the use of the Black-Litterman Model in optimizing portfolios for active investors. The Black-Litterman model is one of the models that can be used to optimize the investment portfolio, the Black-Litterman model provides additional information for the return and risk values based on the views of experts. This model builds on the MV and CAPM using a Bayesian framework that allows investors to effectively incorporate their views of the market into the allocation process asset. Based on several tests that have been carried out during the research with different days, the value of the investor's view will always be different every day, the value of an optimistic view will have a good impact on the stock, even though the stock price is falling, if the investor's view is expressed optimism, the weight of the shares will remain high. Based on scenario 1 testing, the best combination is when using risk aversion 0.1 and investor value 0.3 with the average return value obtained is 0.00657 and the standard deviation is 0.02754 higher than the equal weight model with an average return value of 0.00526 and a standard deviation of 0.02345, in Scenario 2 testing using the best combination gets an average return value of 0.0150 and a standard deviation of 0.0556 while for equal weight it only gets an average return value of 0.0038 and a standard deviation of 0.0235, and when testing scenario 3 the average return value is 0.0225 and a standard deviation 0.1889 while with equal weight only get an average return value of 0.0040 and a standard deviation of 0.02870.

Keywords: Portfolio Investment, Portfolio Optimization, Black-Littermann Model
