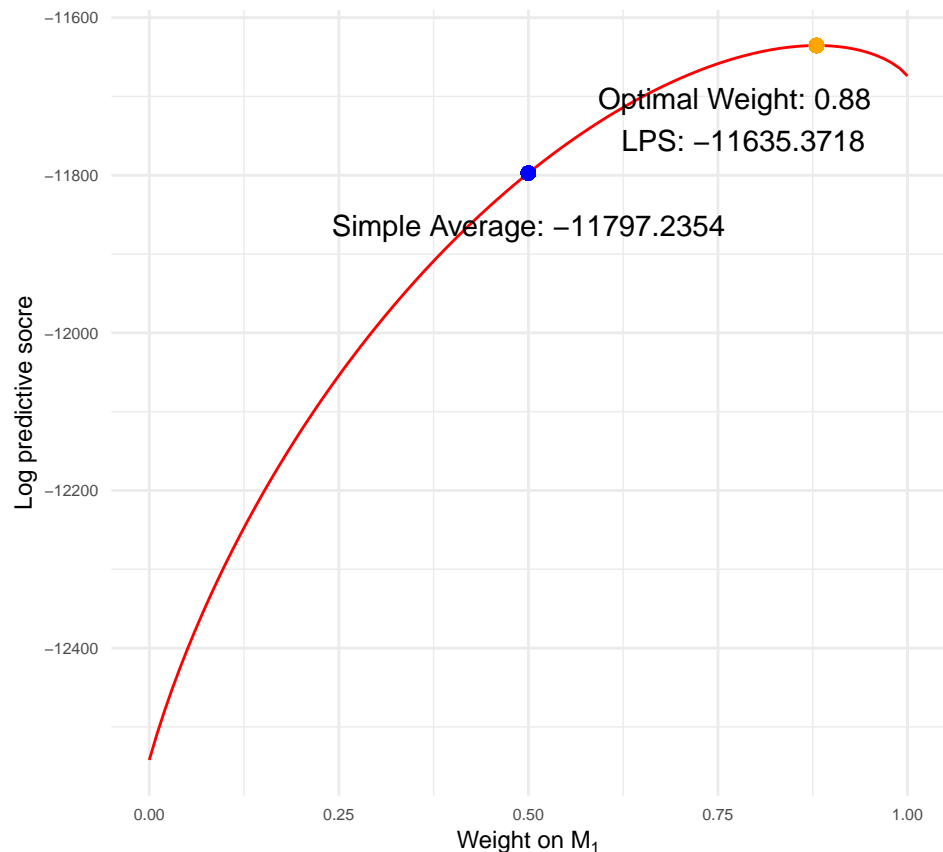


# The density combination of Model 1 and Model 2



$N = 10000$ ,  $\beta_1=4$ ,  $\beta_2=2$ ,  $\text{var}(X_1)=1$ ,  $\text{var}(X_2)=1$ ,  $\text{cov}(X_1, X_2)=0.3$



$N = 10000$ ,  $\beta_1=4$ ,  $\beta_2=2$ ,  $\text{var}(X_1)=1$ ,  $\text{var}(X_2)=1$ ,  $\text{cov}(X_1, X_2)=0.3$