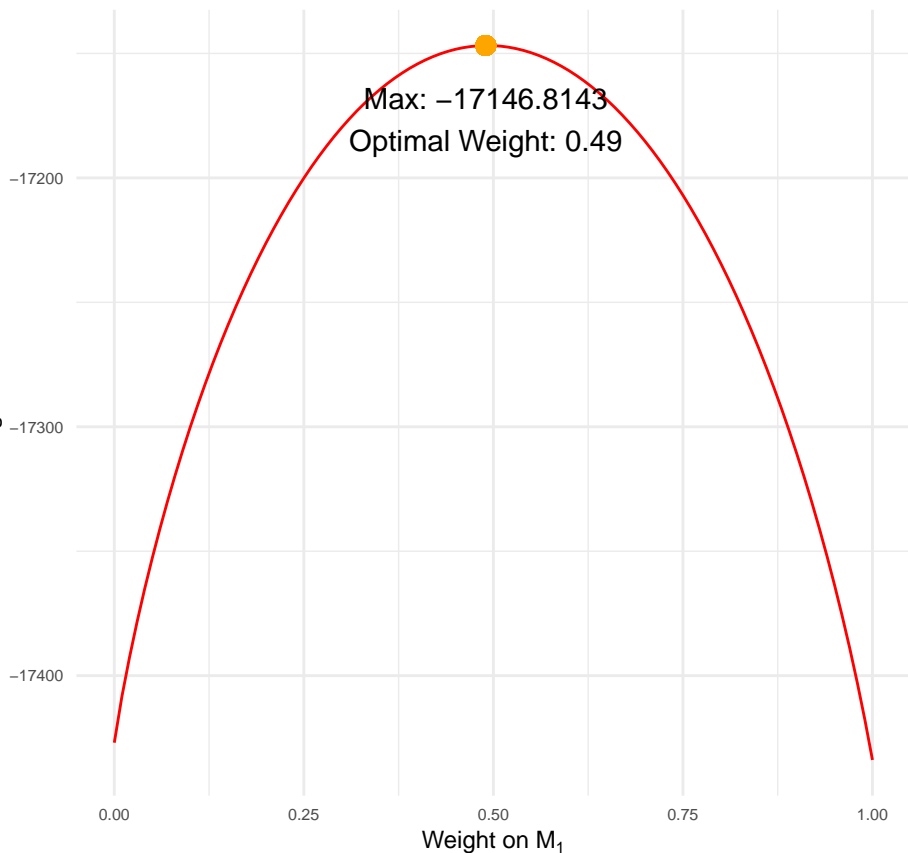


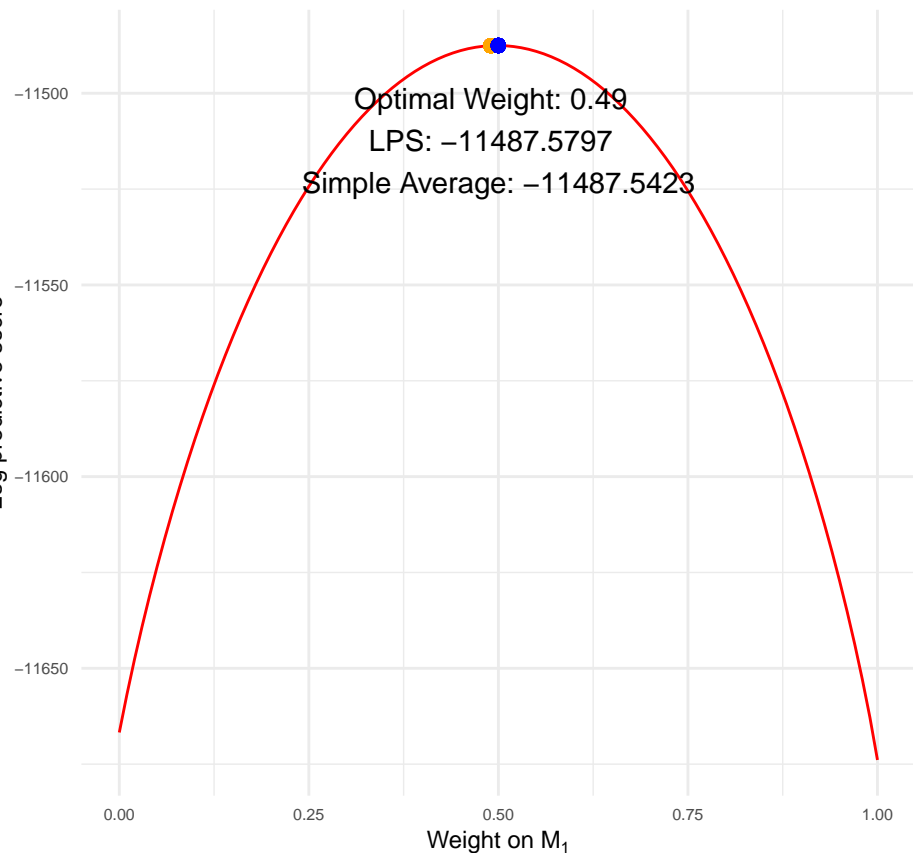
# The density combination of Model 1 and Model 2

Log socre



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

Log predictive socre



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