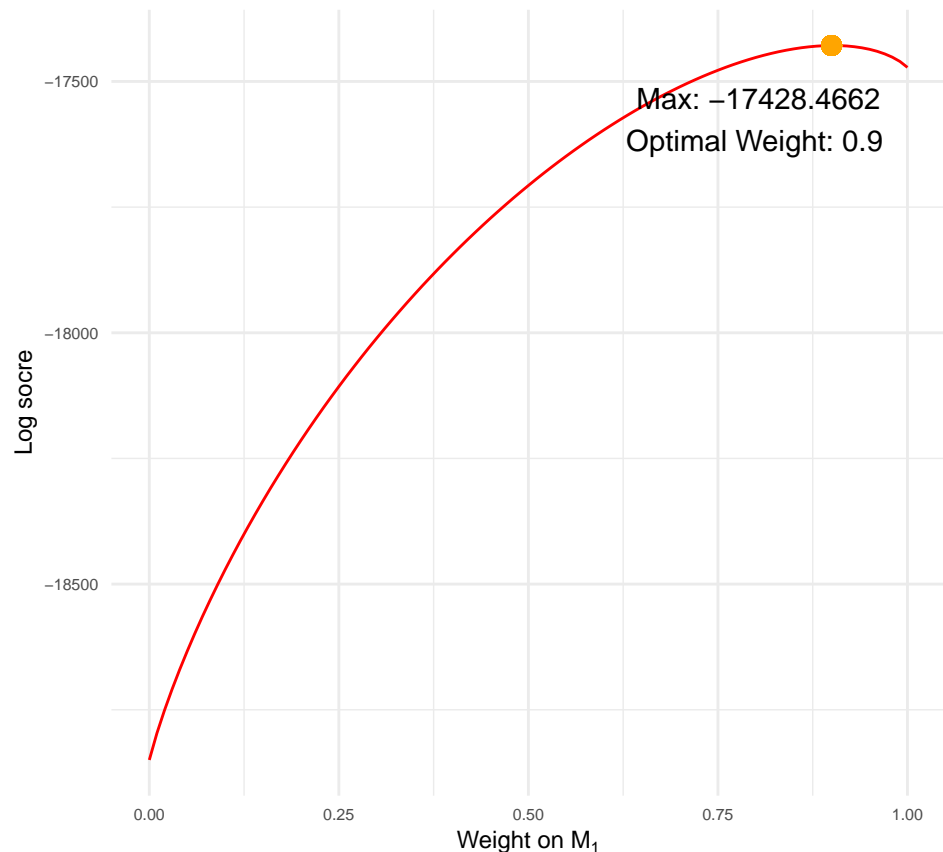
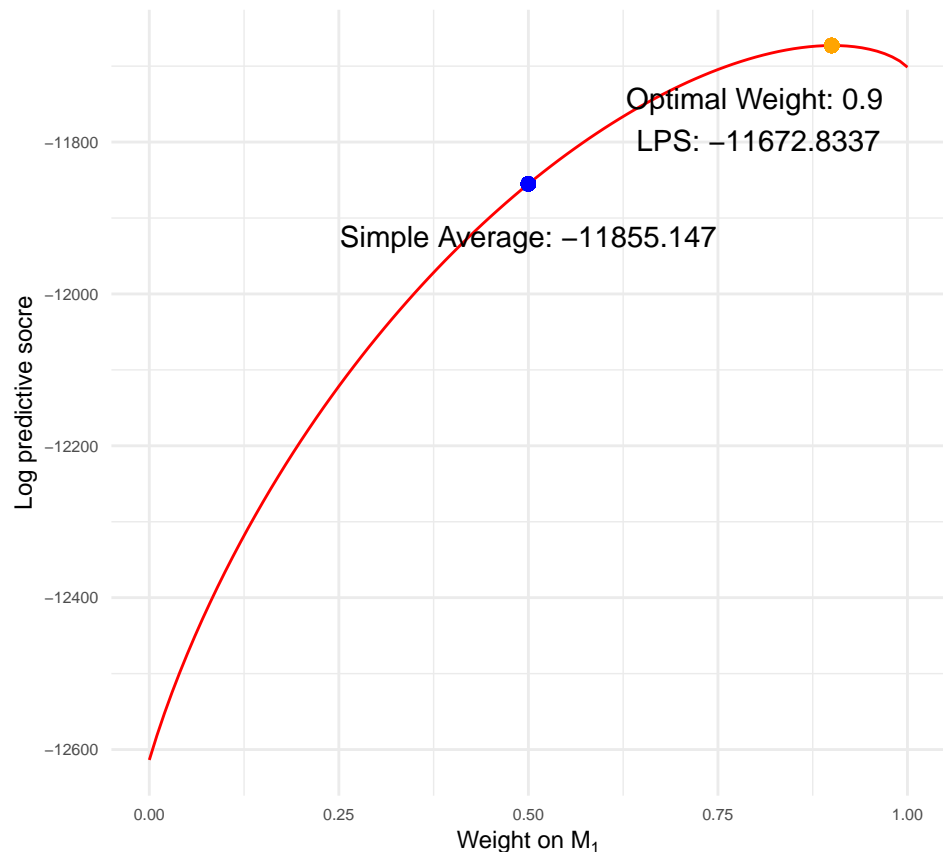


The density combination of Model 1 and Model 2



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



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