$$\hat{\beta} = \underset{\beta}{\operatorname{argmin}} \left\{ -\text{LogLikelihood}\left(Y; X, \beta\right) + \text{Reg}\left(\lambda, \beta, Y, X\right) \right\}$$

where  $\operatorname{Reg}(\cdot) = \lambda \sum \left[ P(Y \mid X, \beta) - P_{\operatorname{Random\_Forest}(Y \mid X)} \right]^2$