Table 1: Model complexity: $n$ is the number of training samples, $f$ the number of features, $n_{trees}$ is the number of trees.

| **Machine learning model** | **Training complexity** |
|---|---|
| Logistic regression | $O(nf)$ |
| SVM with linear kernel | $O(nf)$ |
| SVM with radial basis kernel | $O(n^2 f)$ |
| Decision tree | $O(n^2 f)$ |
| Random forest | $O(n^2 f n_{trees})$ |
| XGBoost | $O(nf n_{trees})$? |