# Experiment [Name of dataset]

## 1  Dataset Description

[An Overview of number of instances, number and types of attributes.]

### 1.1  Feature Exploration

[Plots with remarks]

[Table of Metrics]

### 1.2  Meta-features Description

[Table of Meta-features]

[Plots with remarks]

## 2  Optimized Model

### 2.1  Preprocessing

[Pipeline and heuristics exploited]

## 2.2 Feature Engineering

[Pipeline and heuristics exploited]

## 2.3 Models

[A paragraph with each model's:
a.algorithm name
b.optimized hyperparameters]

## 2.4 Ensemble

[Pipeline
Description of models in ensemble ]

# 3 Evaluation

## 3.1 Optimization Evaluation

[Compare with caret's autotune and random search (Time and Accuracy)
Evaluate model of hyperparameter prediction]

## 3.2 Optimized Model Evaluation

[ A paragraph for each test case:
a. test description (e.g. ROC, accuracy with 10-fold CV) b. test result (plor or metric)]