# model tutor

January 23, 2020

# 0.1 Parameter tuning with PredictTutor class.

This class assumes the next point or set of points to check. - Multi and single objective - Models portfolio - If there is no correct model takes a point from the sampling plan. - Random or Sobol sequence sampling plan.

"For 800 years have I trained Jedi." Yoda, to Luke Skywalker

```
[5]: import sys
     sys.path.append('..')
     # --- Dependencies
     import pygmo as pg
     import numpy as np
     import pandas as pd
     # import doupanda
     import plotly
     from plotly import graph_objs as go
     from plotly import tools
     import plotly.express as px
     import sklearn.gaussian_process as gp
     from sklearn.model_selection import cross_val_score, cross_validate
     from sklearn.ensemble import GradientBoostingRegressor
     from sklearn.linear_model import LinearRegression
     from src.composite import PredictTutor, ModelsUnion
     from src.generator import SamplesGenerator
     from src.ploting import plot_mo
     from src.hypothesis.tpot_estimator import TpotWrp
     from src.hypothesis.custom_gp_kernel import KERNEL_MAUNA, KERNEL_SIMPLE, __
      →KERNEL_GPML
```

## 0.1.1 Problem definition

```
[6]: DIM = 2
ID = 4
OBJ = 2

# --- Problem
udp = pg.wfg(prob_id=ID, dim_dvs=DIM, dim_obj=OBJ, dim_k=OBJ-1)
# udp = pg.zdt(prob_id=ID, param=DIM)
pro = pg.problem(udp)
```

# 0.1.2 Initialization a models for portfolio

# 0.1.3 Prediction tutor

```
[8]: gen = SamplesGenerator(pro)
tutor = PredictTutor(pro.get_bounds(), portfolio=[tea_pot, gp_sim, grad_uni,u_lin_uni])

iter_solution = []
x=0
while x < 300:
    x=x+1
    print("\n--- {}".format(x))
    X, y = gen.return_X_y()
    iter_solution.append(tutor.solution)
    propos = tutor.next_config(X, y, n=1, cv=4)
    gen.update(propos.tolist(), [pro.fitness(p).tolist() for p in propos])</pre>
```

```
--- 1
Initialization data generator
```

In dataset add 1 new results

# --- 3

In dataset add 1 new results

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In dataset add 1 new results

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In dataset add 1 new results

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In dataset add 1 new results

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In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

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Split dataset. Validation is 0.25% In dataset add 1 new results

# --- 50

Split dataset. Validation is 0.25% In dataset add 1 new results

# --- 51

Split dataset. Validation is 0.25% 2 model(s) valid
Inner score on a validation set

Evolve Pipeline vs Pipeline by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 52

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs Pipeline by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 53

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 54

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 55

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 56

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve Pipeline vs Pipeline by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population

In dataset add 1 new results

size in 80 generation

--- 57

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 58

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 59

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 60

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 62

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

### --- 63

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 64

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs  $\tt GradientBoostingRegressor$  by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

### --- 65

Split dataset. Validation is 0.25%

3 model(s) valid

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 66

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 67

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

## --- 68

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 69

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs  $\tt GradientBoostingRegressor$  by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

### --- 70

Split dataset. Validation is 0.25%

3 model(s) valid

Evolve Gaussian ProcessRegressor by 80 population size in 80 generation Evolve Gradient BoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

#### --- 71

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 72

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

# --- 73

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 74

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 75

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 76

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 77

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 78

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 79

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 80

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 81

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 82

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

## --- 83

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

# --- 84

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 85

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 86

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

#### --- 87

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 88

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 89

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 90

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

### --- 91

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

#### --- 92

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 93

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 94

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs  ${\tt GradientBoostingRegressor}$  by 80 population size in 80 generation

In dataset add 1 new results

# --- 95

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 96

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 97

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 98

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 99

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs  ${\tt GradientBoostingRegressor}$  by 80 population size in 80 generation

In dataset add 1 new results

# --- 100

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 101

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 102

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs Pipeline by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 103

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 104

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 105

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population

size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 106

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 107

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 108

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs Pipeline by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 109

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 110

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 112

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 113

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 114

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 115

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 116

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 117

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 118

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 119

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 120

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 121

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 122

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 123

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

## --- 124

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 125

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 126

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 127

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 128

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 129

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 130

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

#### --- 131

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 132

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 133

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 134

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 135

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

#### --- 136

Split dataset. Validation is 0.25%

3 model(s) valid

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 137

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 138

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 139

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 140

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 141

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs Pipeline by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 142

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 143

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 144

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 145

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 146

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation

### In dataset add 1 new results

### --- 147

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 148

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

### --- 149

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

#### --- 150

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

#### --- 151

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80

### generation

In dataset add 1 new results

### --- 152

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

#### --- 153

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 154

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 155

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 156

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 158

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 159

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

#### --- 160

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 161

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 162

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 163

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 164

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 165

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 166

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 167

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

#### --- 168

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 169

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

### --- 170

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 171

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 172

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 173

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 174

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 175

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 176

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 177

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population

size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 178

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 179

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 180

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 181

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 182

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 184

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 185

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 186

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 187

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 188

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 189

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 190

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 191

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 192

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 193

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 194

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 195

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 196

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 197

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 198

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 199

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 200

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 201

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 202

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 203

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 205

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 206

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 207

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

## --- 208

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 209

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 210

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 211

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 212

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 213

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 214

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 215

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 216

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 217

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 218

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 219

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 220

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

--- 221

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 222

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 223

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 224

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 226

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 227

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 228

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 229

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 230

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 231

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 232

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 233

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 234

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 235

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 236

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 237

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

# --- 238

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

# --- 239

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 240

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 241

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

## --- 242

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 243

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 244

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 245

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 246

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 247

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 248

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 249

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 250

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 252

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 253

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 254

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 255

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 256

Split dataset. Validation is 0.25% 2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 257

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 258

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 259

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 260

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 261

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 262

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 263

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 264

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs  ${\tt GradientBoostingRegressor}$  by 80 population size in 80 generation

In dataset add 1 new results

--- 265

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 266

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80

### generation

In dataset add 1 new results

## --- 267

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 268

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 269

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 270

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 271

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 273

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 274

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

## --- 275

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 276

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

In dataset add 1 new results

--- 277

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 278

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 279

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 280

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 281

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 282

Split dataset. Validation is 0.25%

2 model(s) valid

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 283

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 284

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 285

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 286

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

#### --- 287

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation

#### In dataset add 1 new results

--- 288

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 289

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 290

Split dataset. Validation is 0.25%

3 model(s) valid

Inner score on a validation set

Evolve GaussianProcessRegressor by 80 population size in 80 generation Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population

size in 80 generation Evolve Pipeline vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 291

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

--- 292

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 294

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

## --- 295

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

# --- 296

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population size in 80 generation

Evolve Pipeline vs Pipeline by 80 population size in 80 generation In dataset add 1 new results

### --- 297

Split dataset. Validation is 0.25%

2 model(s) valid

Inner score on a validation set

Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80 generation

Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80 generation

In dataset add 1 new results

### --- 298

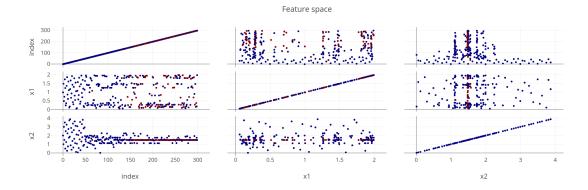
Split dataset. Validation is 0.25%

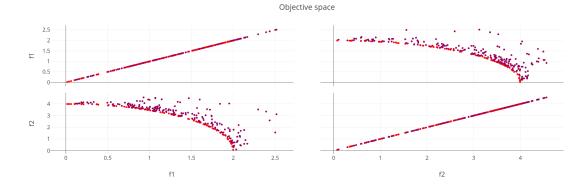
```
2 model(s) valid
Inner score on a validation set
Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population
size in 80 generation
Evolve Pipeline vs Pipeline by 80 population size in 80 generation
In dataset add 1 new results
--- 299
Split dataset. Validation is 0.25%
2 model(s) valid
Inner score on a validation set
Evolve GradientBoostingRegressor vs GradientBoostingRegressor by 80 population
size in 80 generation
Evolve Pipeline vs Pipeline by 80 population size in 80 generation
In dataset add 1 new results
--- 300
Split dataset. Validation is 0.25%
2 model(s) valid
Inner score on a validation set
Evolve Pipeline vs GradientBoostingRegressor by 80 population size in 80
generation
Evolve GradientBoostingRegressor vs Pipeline by 80 population size in 80
generation
In dataset add 1 new results
```

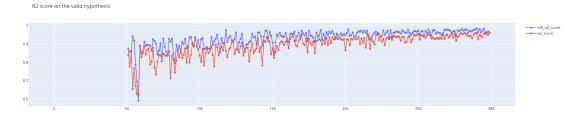
# 0.1.4 Results analysis

Evaluated 300 point(s). Non-dominated solutions is 29.7% from all dataset Hypervolume: 6.25

```
[45]: X_ndf = X.copy().reset_index()
X_ndf['ndf'] = 0
X_ndf.loc[ndf[0],['ndf']] = 1
```

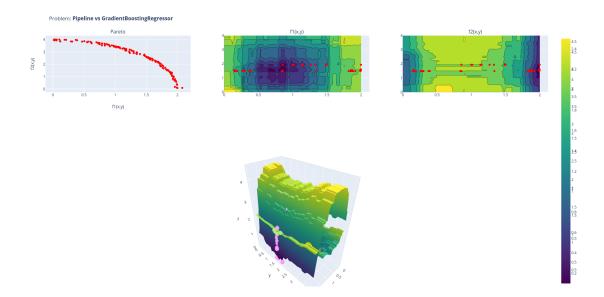






0.1.5 \*Plotting objectives and search space for the last iteration of tuning - Red points are Pare front from the hypothesis. - Blue points are non-dominated solutions from evaluated points. Set of the best solutions available for this iteration.

\*\*if the dimension of problem and objective space is 2\*



```
[51]: px.scatter_matrix(y.copy().loc[ndf[0],:], template="presentation",

dimensions=list(y.drop(columns=['index']).columns),

color_continuous_scale='Redblue', title="Pareto front").

dupdate_layout(coloraxis_showscale=False)
```

