modelDown

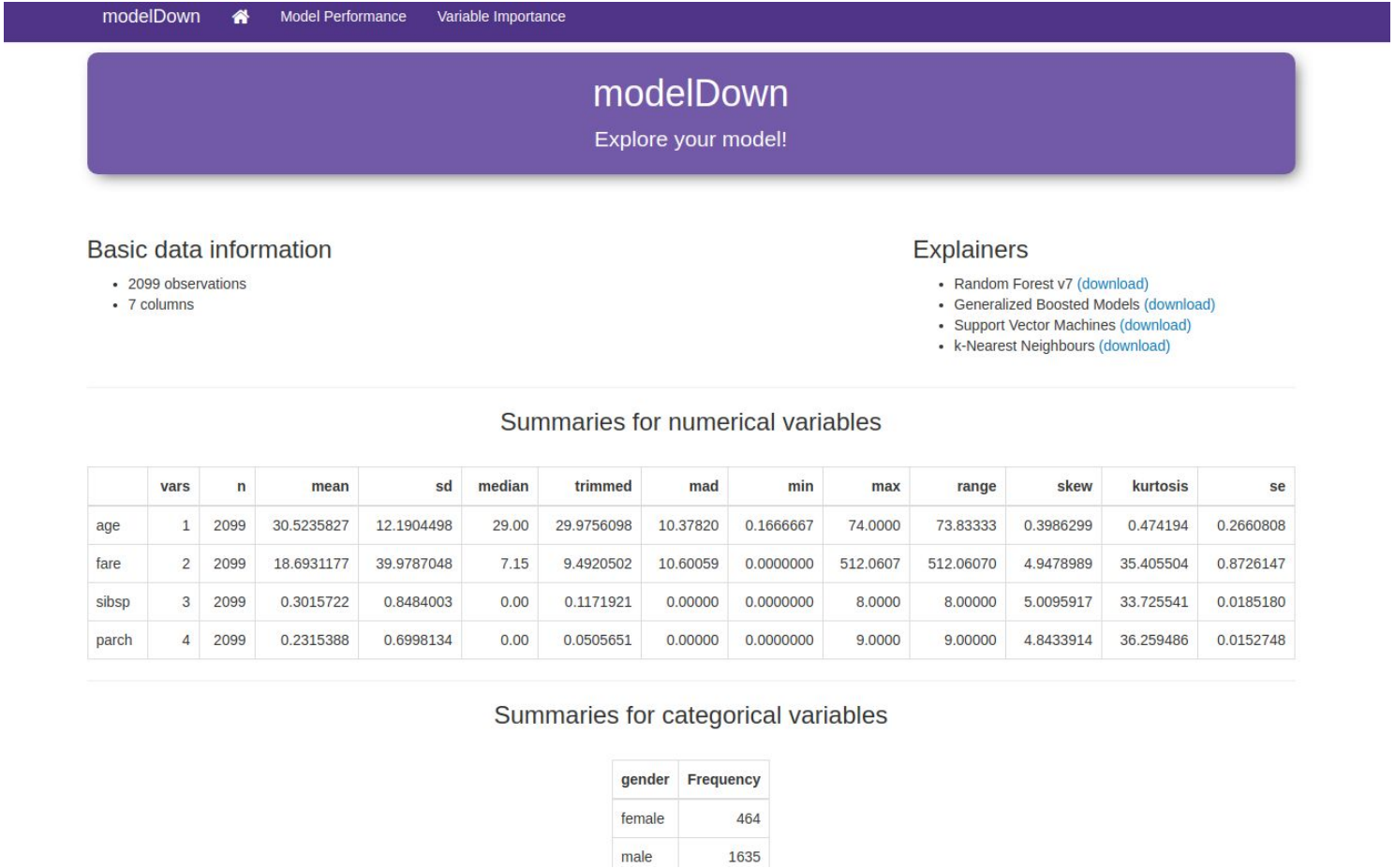
Generate a website with HTML summaries for predictive models

Simplicity - one function to rule them (explainers) all!

```
modelDown(..., modules = c("auditor", "drifter", "model_performance",
  "variable_importance", "variable_response"), output_folder = "output",
  repository_name = "repository", should_open_website = TRUE)
```

...	one or more explainers created with `DALEX::explain()` function. Pair of explainer could be provided to check drift of models
modules	modules that should be included in the website
output_folder	folder where the website will be saved
repository_name	name of local archivist repository that will be created
should_open_website	should generated website be automatically opened in default browser

Basic summary of data



modelDown | Model Performance | Variable Importance

modelDown

Explore your model!

Basic data information

- 2099 observations
- 7 columns

Explainers

- Random Forest v7 (download)
- Generalized Boosted Models (download)
- Support Vector Machines (download)
- k-Nearest Neighbours (download)

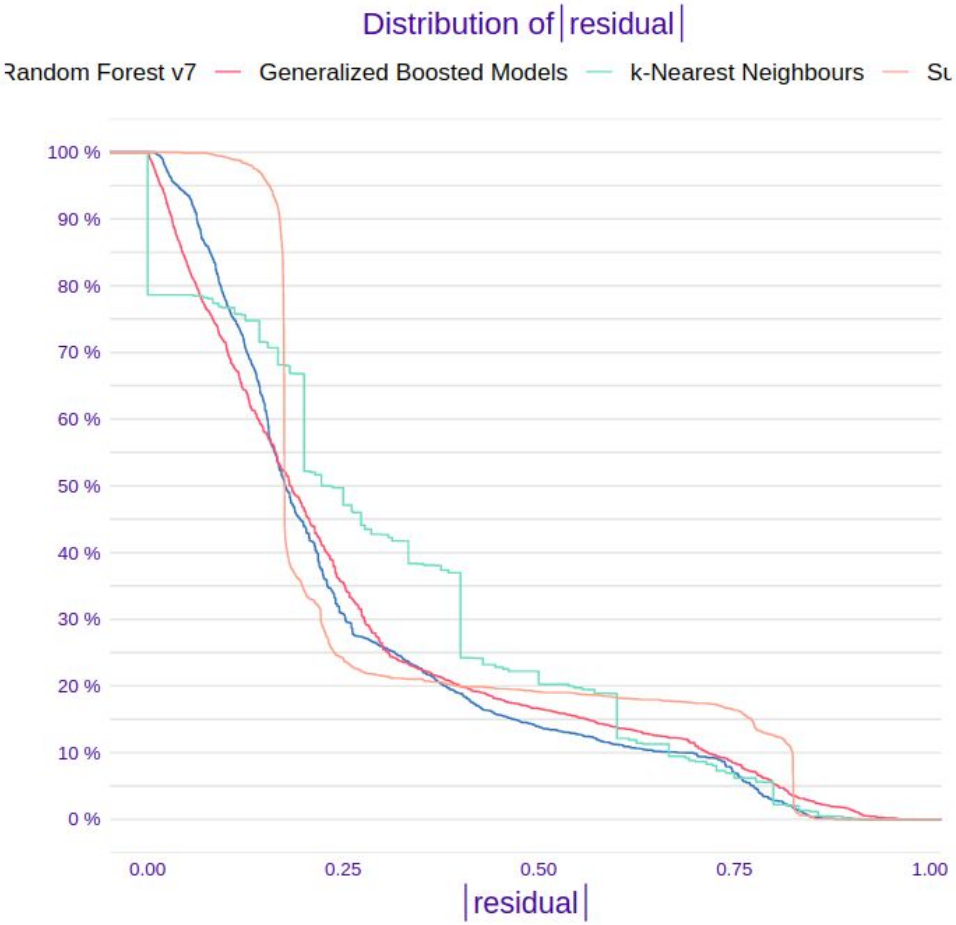
Summaries for numerical variables

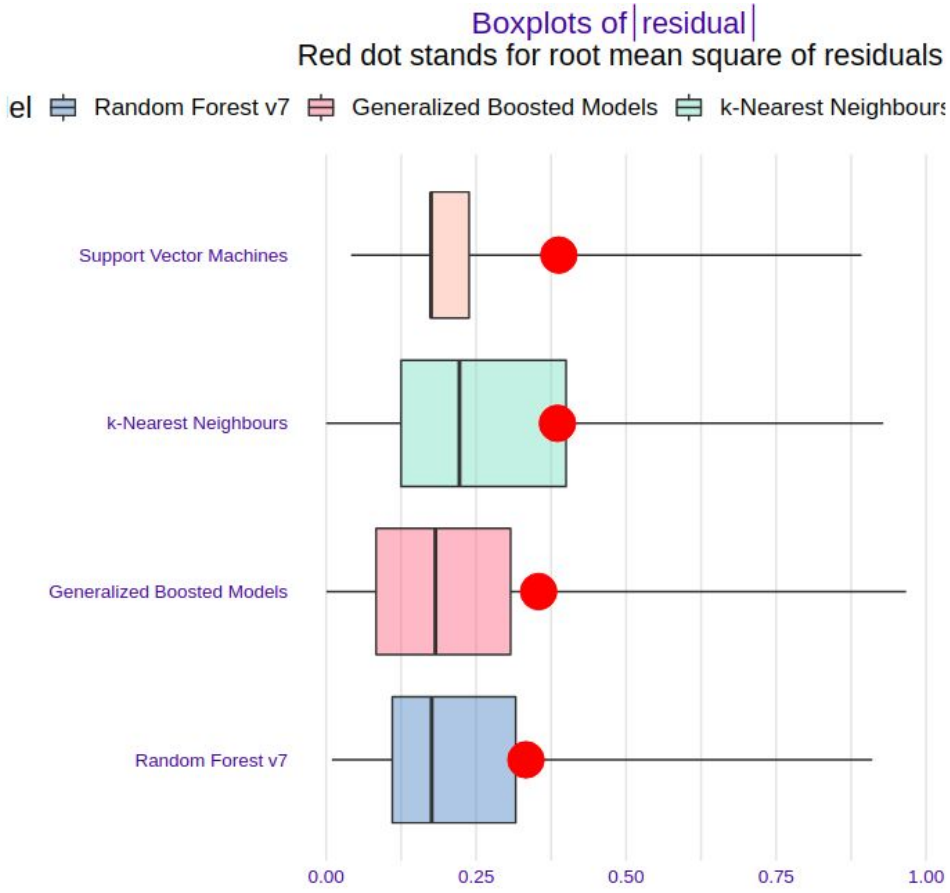
	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
age	1	2099	30.5235827	12.1904498	29.00	29.9756098	10.37820	0.1666667	74.0000	73.83333	0.3986299	0.474194	0.2660808
fare	2	2099	18.6931177	39.9787048	7.15	9.4920502	10.60059	0.0000000	512.0607	512.06070	4.9478989	35.405504	0.8726147
sibsp	3	2099	0.3015722	0.8484003	0.00	0.1171921	0.00000	0.0000000	8.0000	8.00000	5.0095917	33.725541	0.0185180
parch	4	2099	0.2315388	0.6998134	0.00	0.0505651	0.00000	0.0000000	9.0000	9.00000	4.8433914	36.259486	0.0152748

Summaries for categorical variables

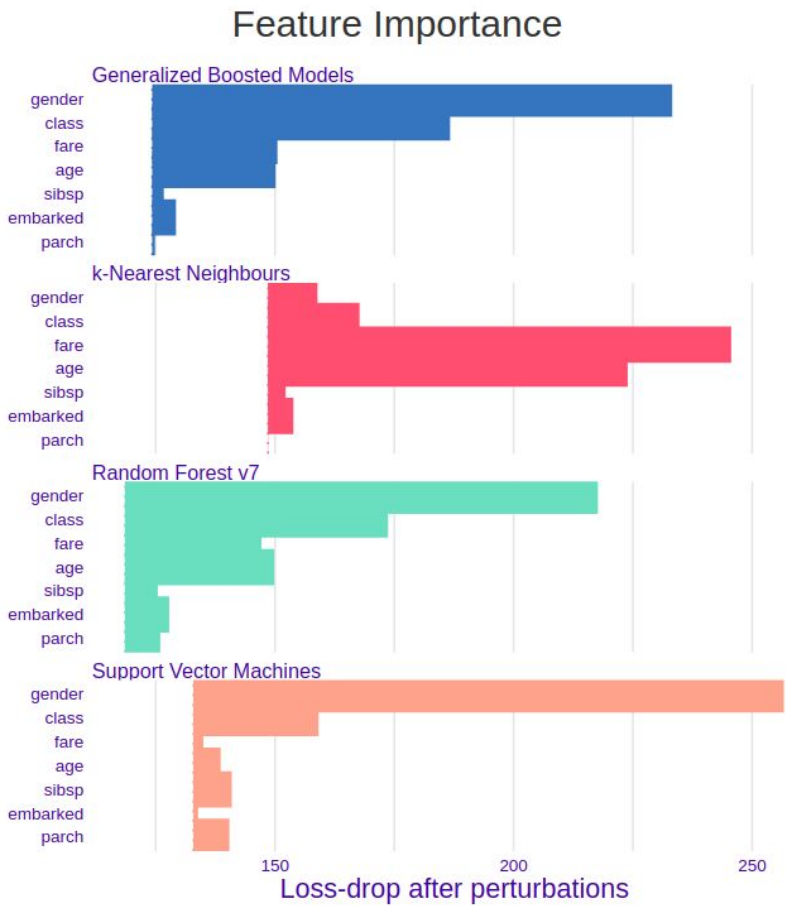
gender	Frequency
female	464
male	1635

Model performance

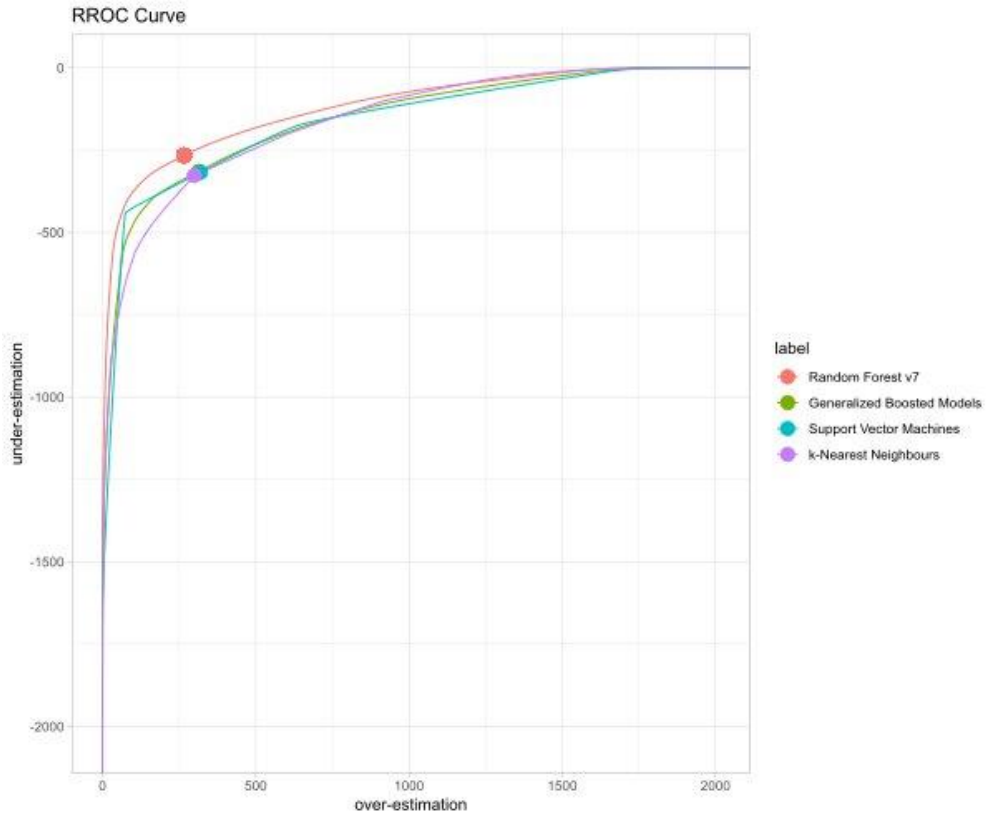



Boxplots of |residual|
Red dot stands for root mean square of residuals
el
Random Forest v7
Generalized Boosted Models
k-Nearest Neighbours
Support Vector Machines
k-Nearest Neighbours
Generalized Boosted Models
Random Forest v7
0.00
0.25
0.50
0.75
1.00

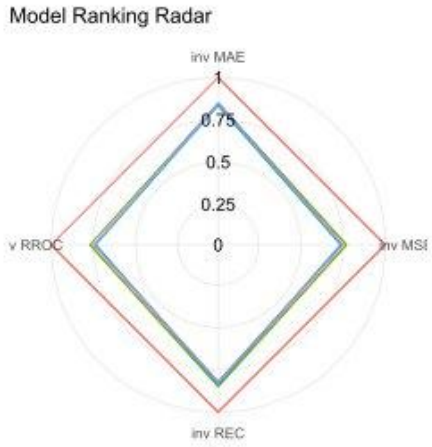
Variable importance



Model Audit

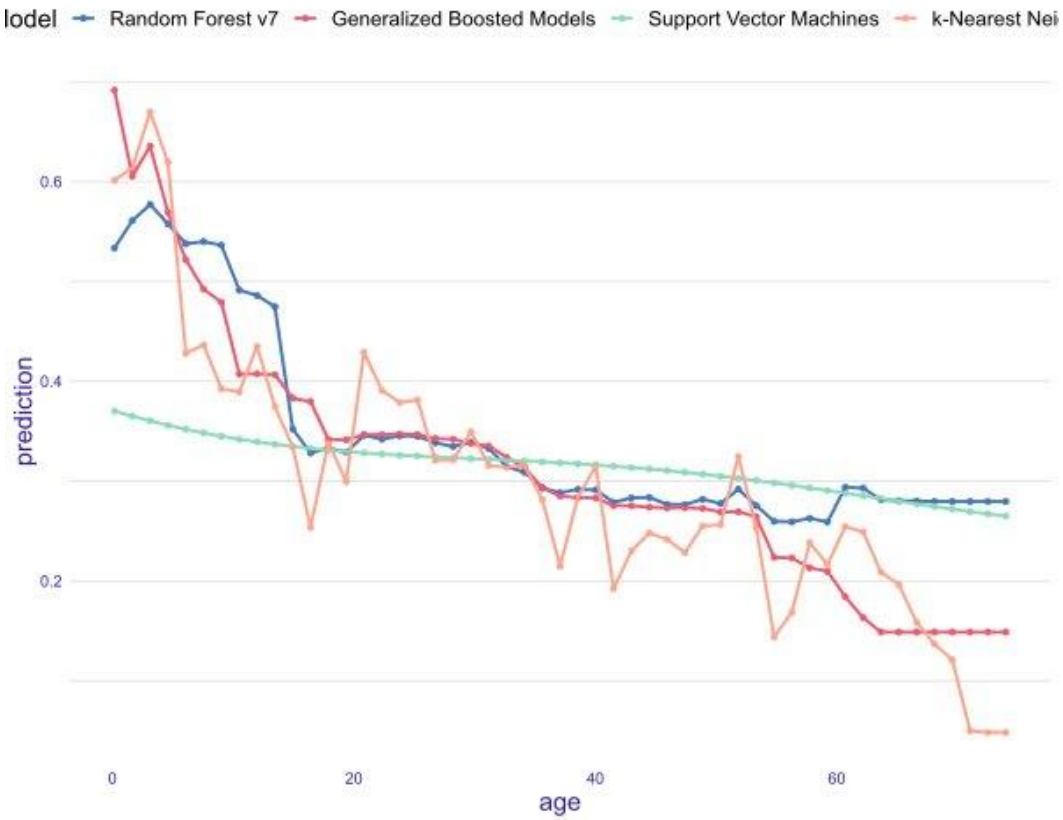

RROC Curve
0
-500
-1000
-1500
-2000
under-estimation
0
500
1000
1500
2000
over-estimation
label
Random Forest v7
Generalized Boosted Models
Support Vector Machines
k-Nearest Neighbours

Ranking radar



name	label	values
MAE	Random Forest v7	2.54e-01
MAE	Generalized Boosted Models	3.00e-01
MAE	Support Vector Machines	3.04e-01
MAE	k-Nearest Neighbours	2.99e-01
MSE	Random Forest v7	1.11e-01
MSE	Generalized Boosted Models	1.44e-01
MSE	Support Vector Machines	1.50e-01
MSE	k-Nearest Neighbours	1.49e-01
REC	Random Forest v7	2.53e-01
REC	Generalized Boosted Models	2.99e-01
REC	Support Vector Machines	3.03e-01
REC	k-Nearest Neighbours	3.09e-01
RROC	Random Forest v7	2.44e+05
RROC	Generalized Boosted Models	3.18e+05
RROC	Support Vector Machines	3.31e+05
RROC	k-Nearest Neighbours	3.27e+05

Variable response - continuous



Variable response - categorical