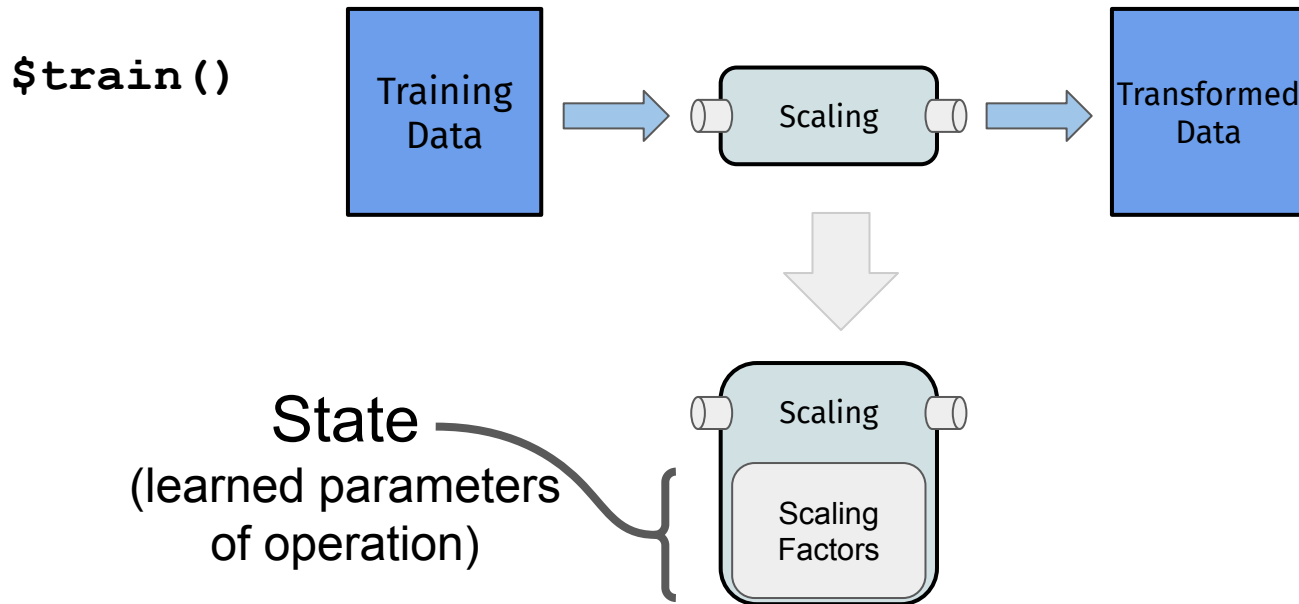
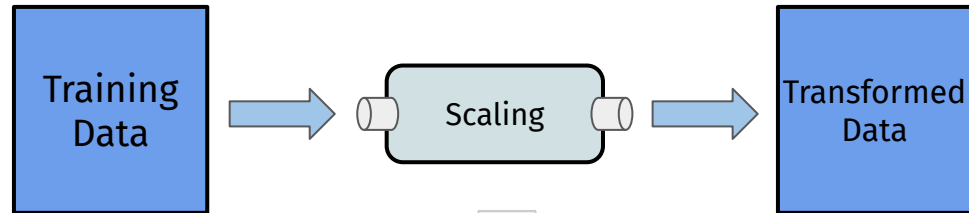


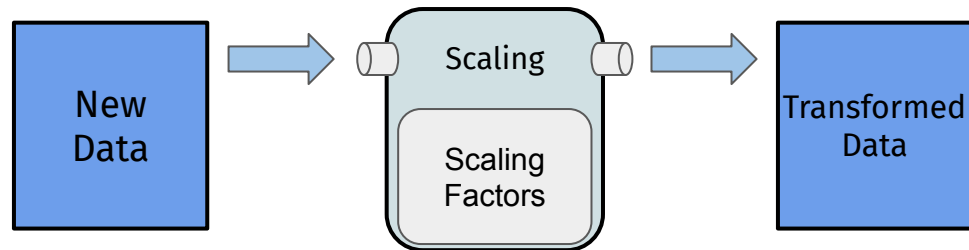
Please **do not change any of the slides**, they are directly used by the 2019 useR mlr3pipelines presentation and all presentations that inherit from that one. Instead, add new graphics at the end.

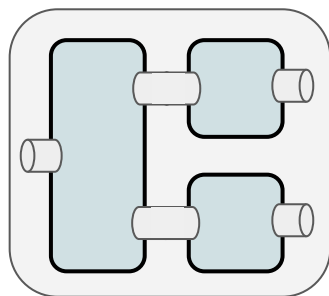


`$train()`

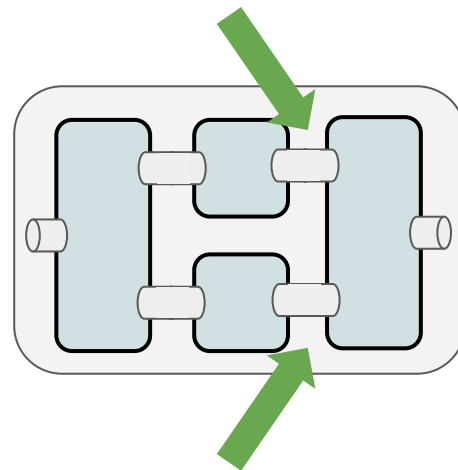
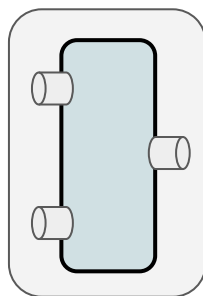


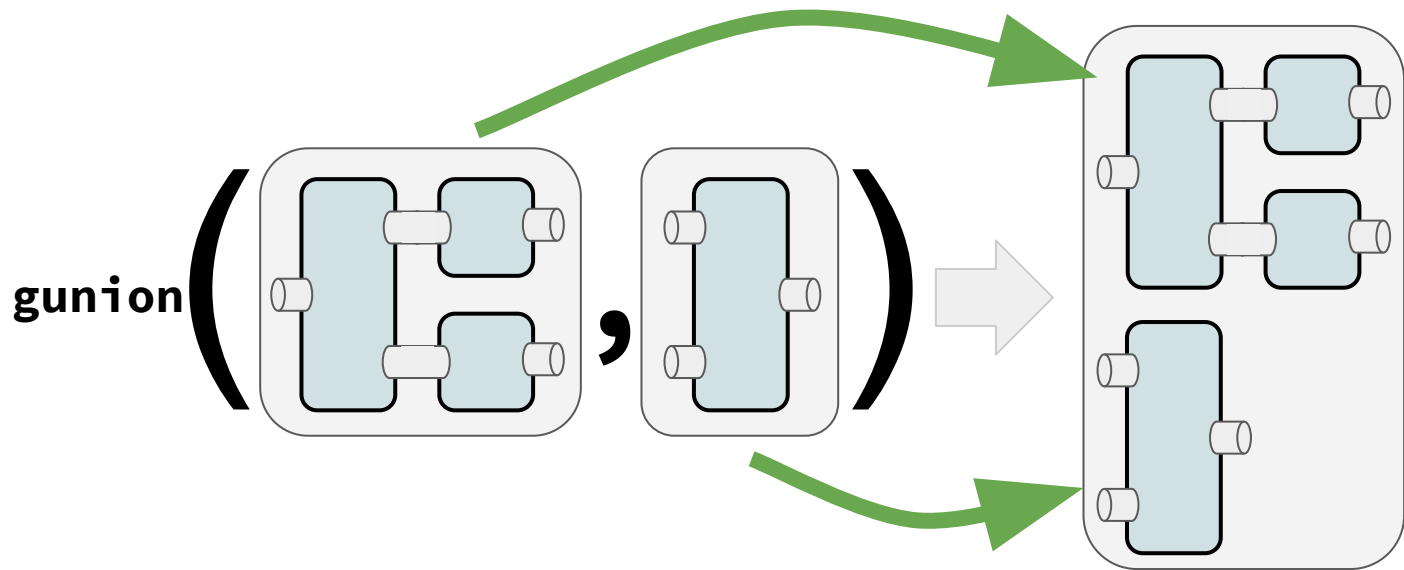
`$predict()`

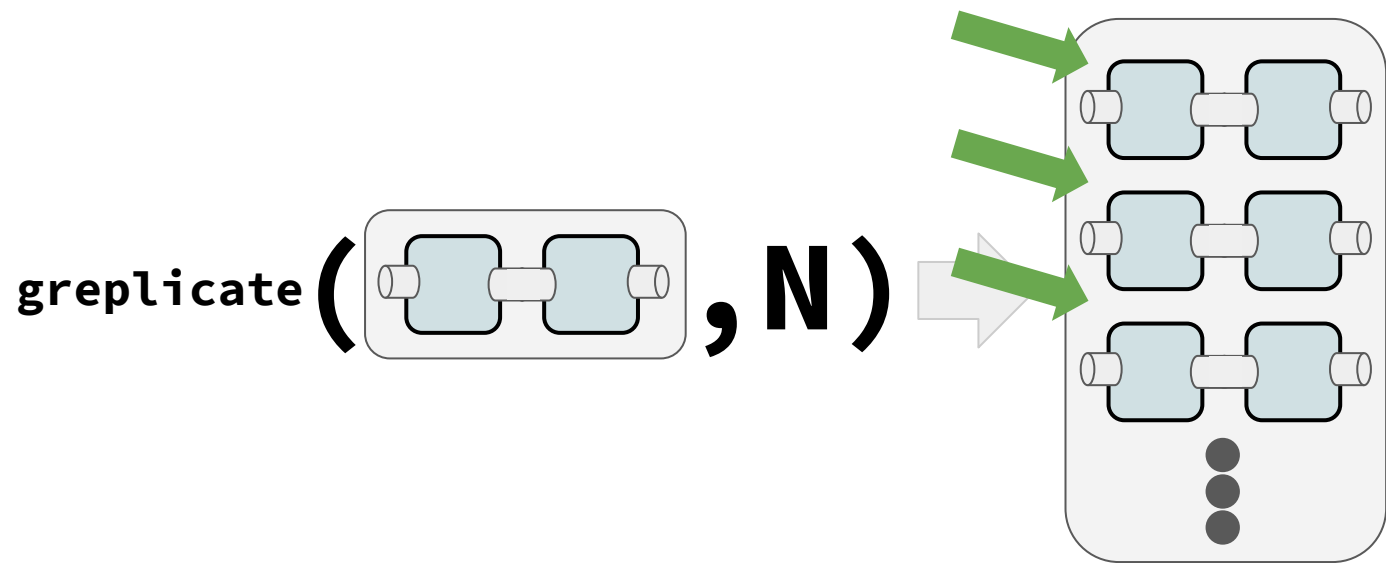


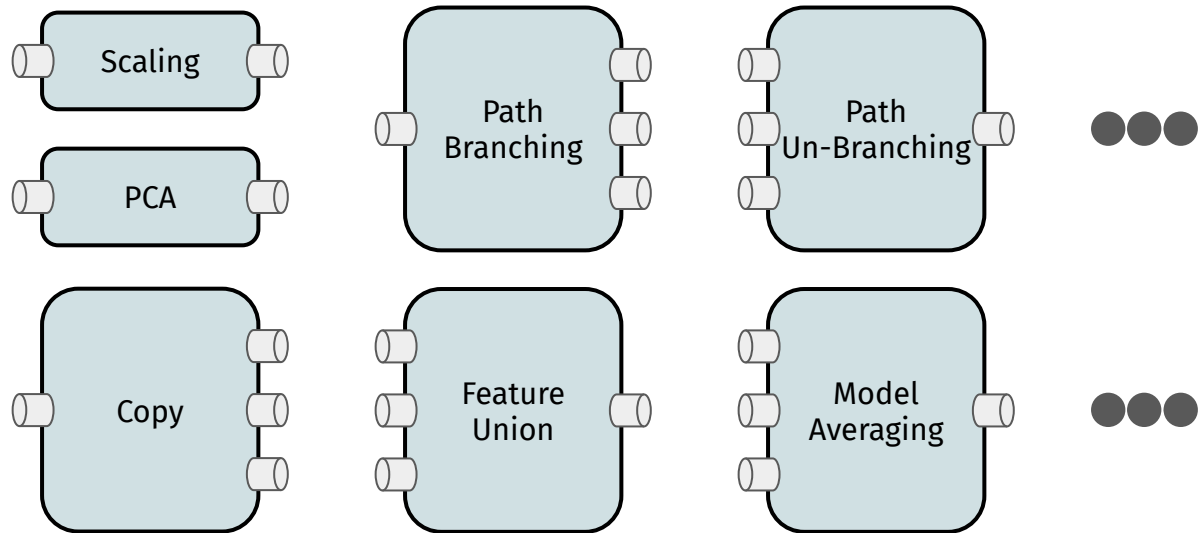


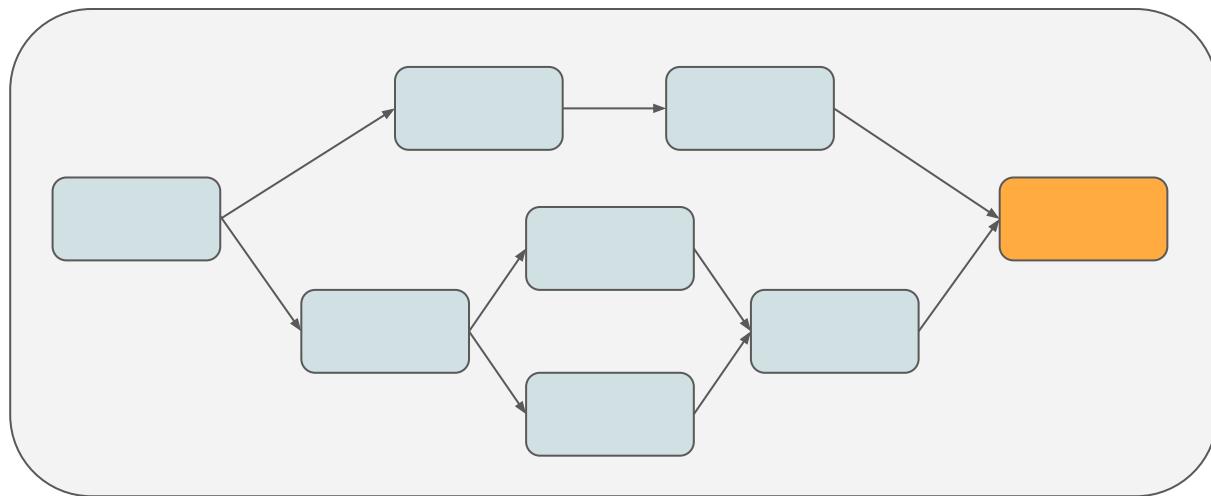
$\%>>\%$

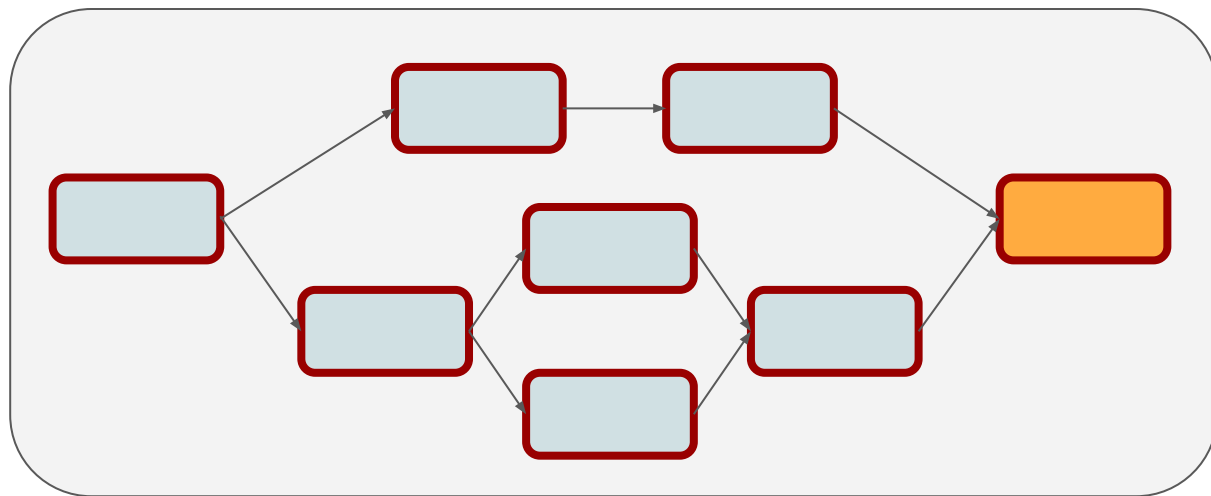




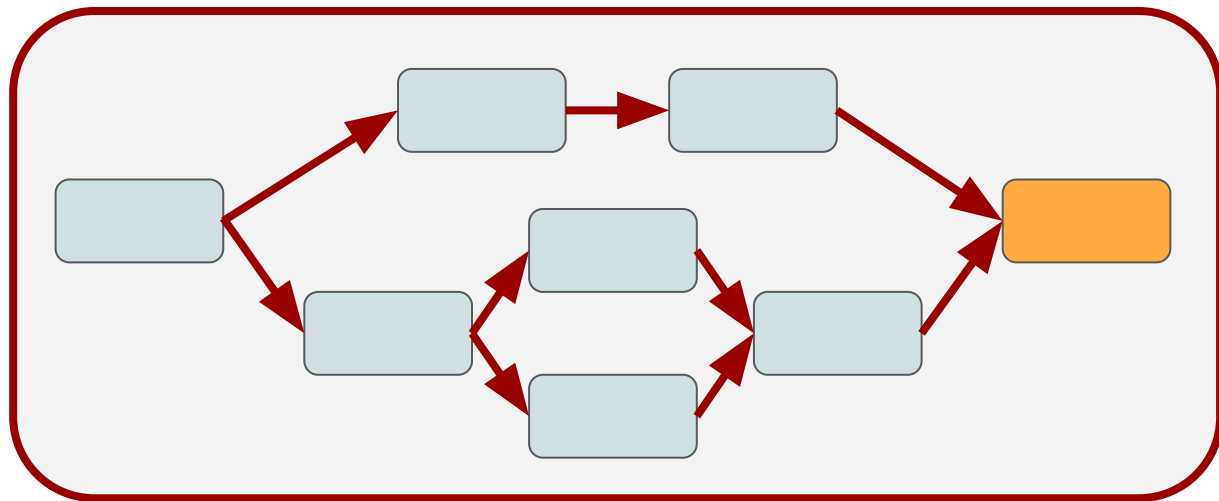


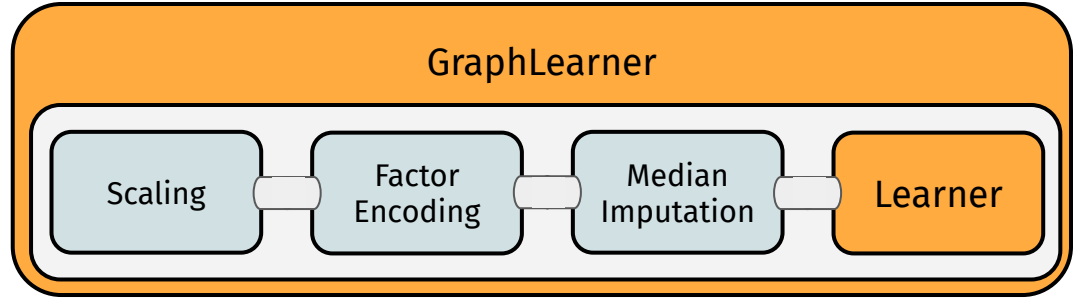


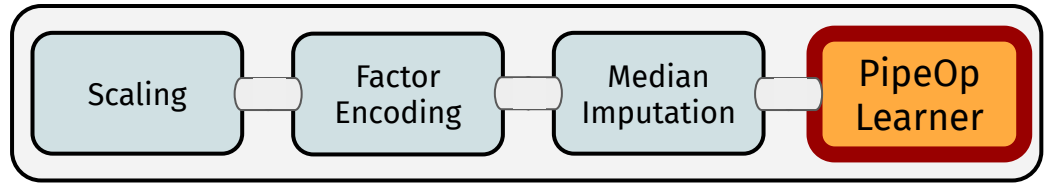


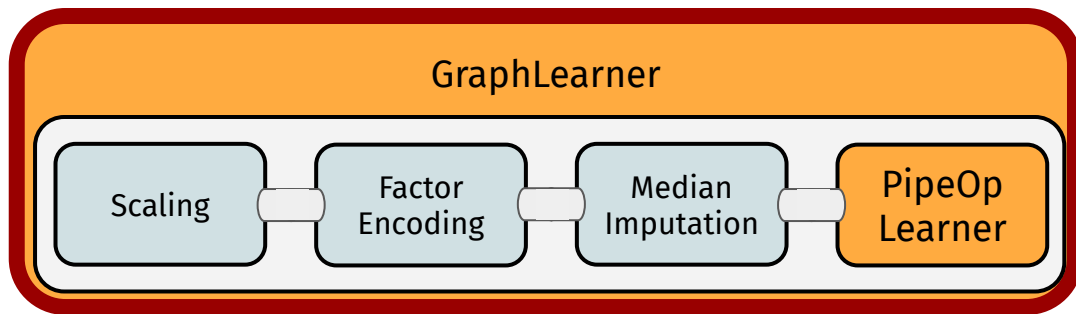


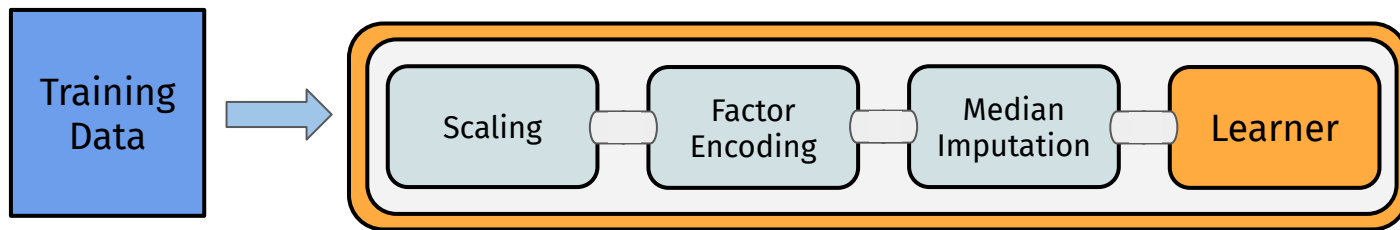


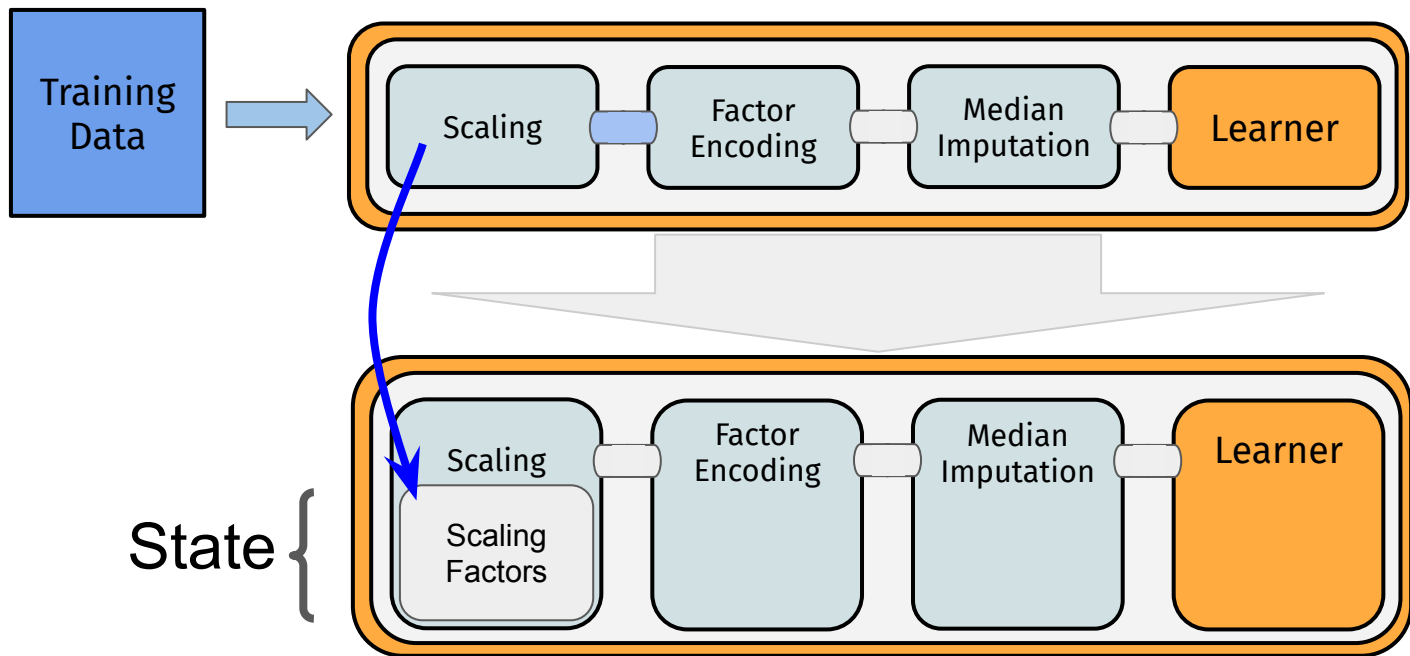


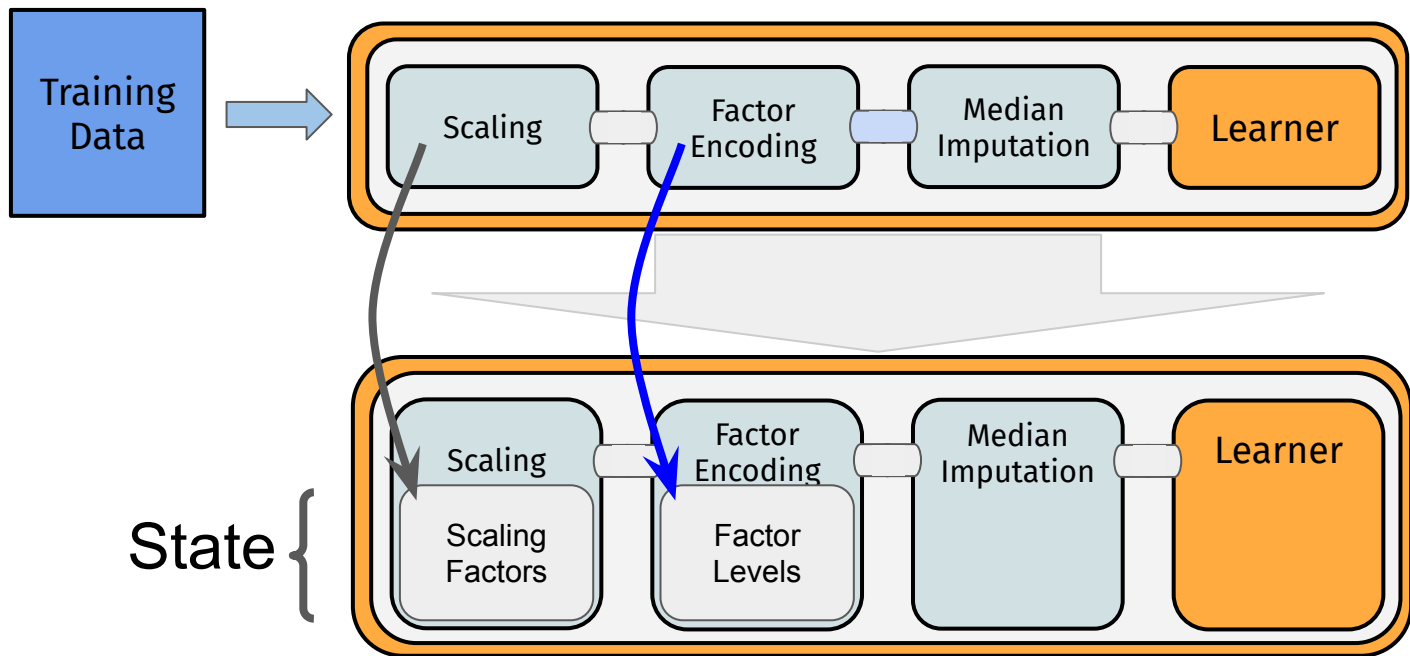


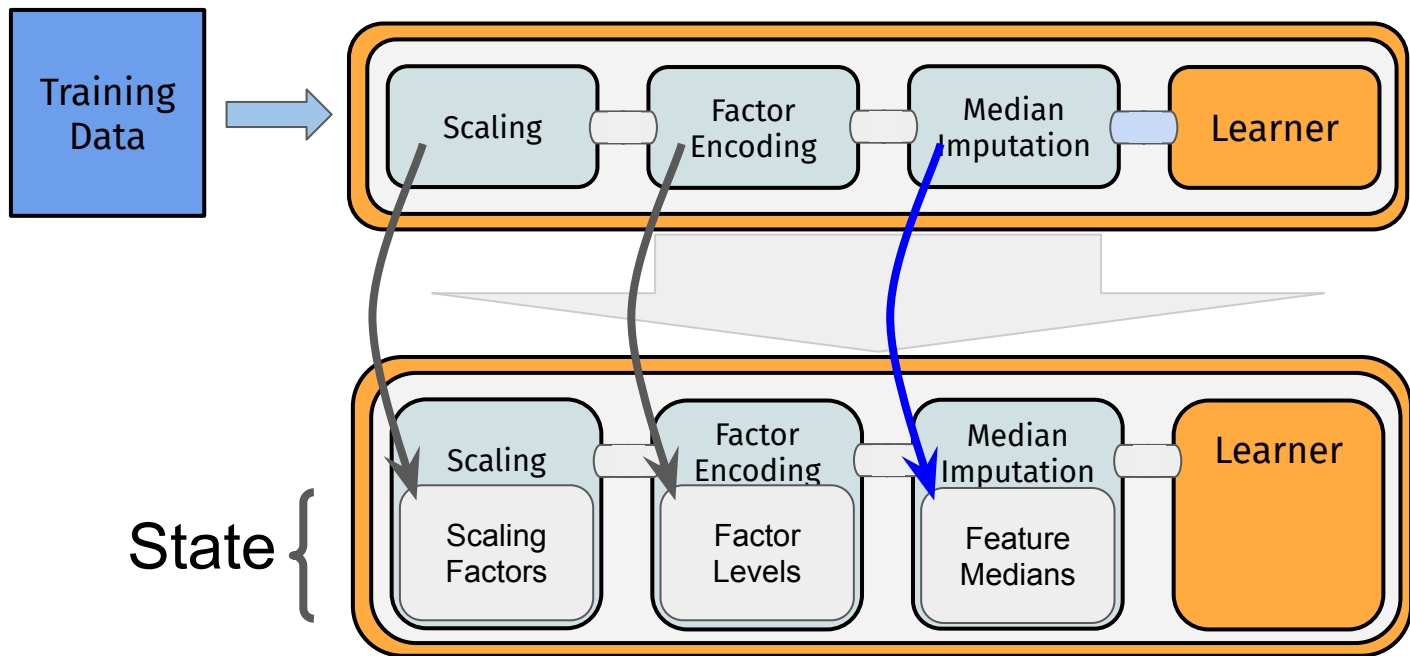




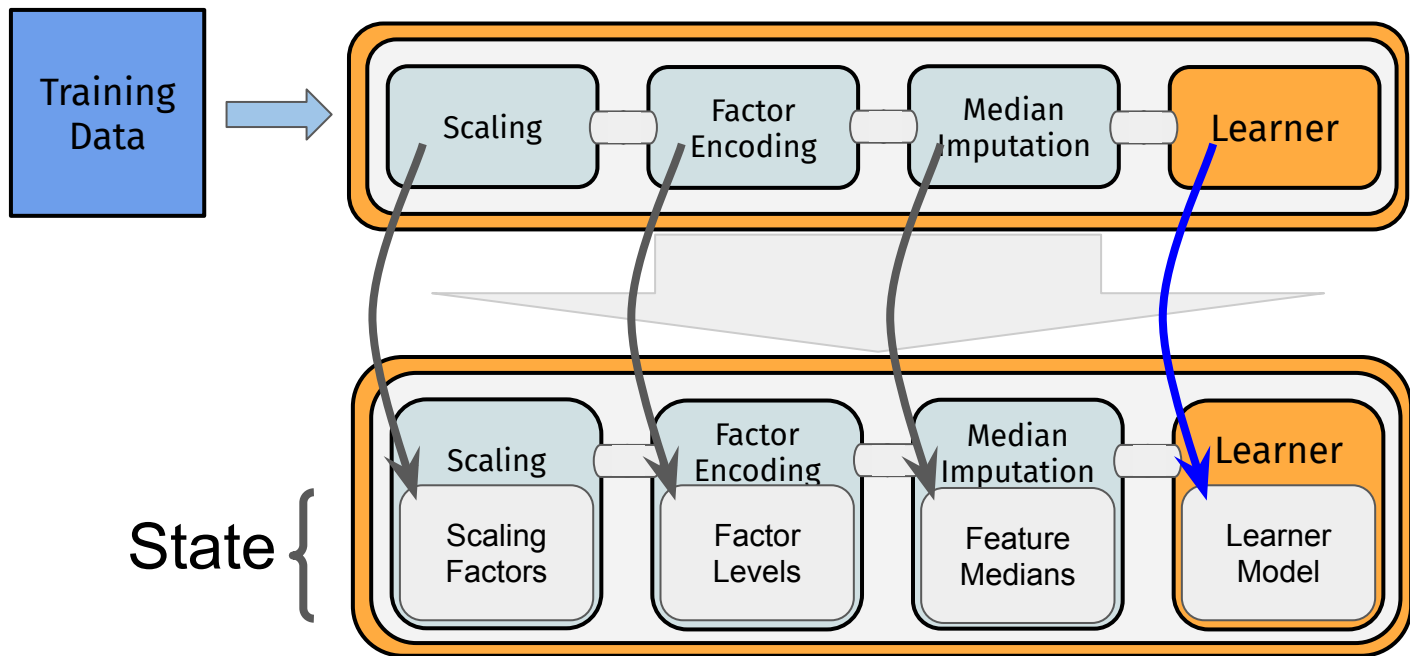


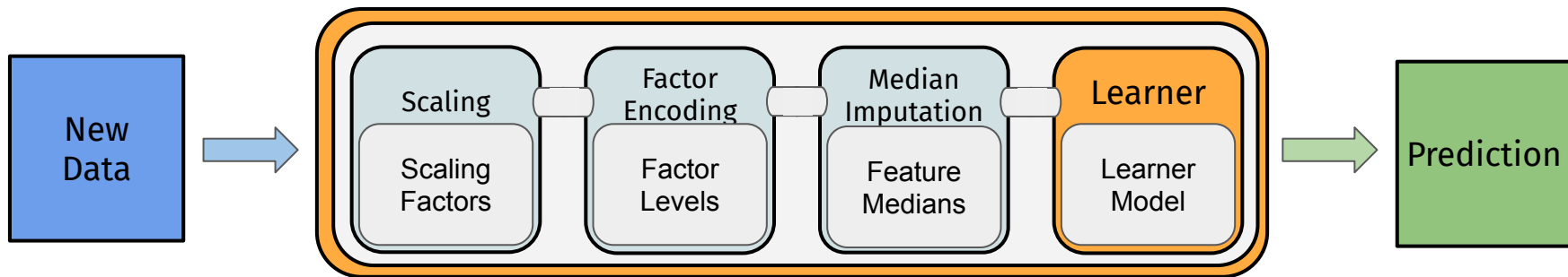


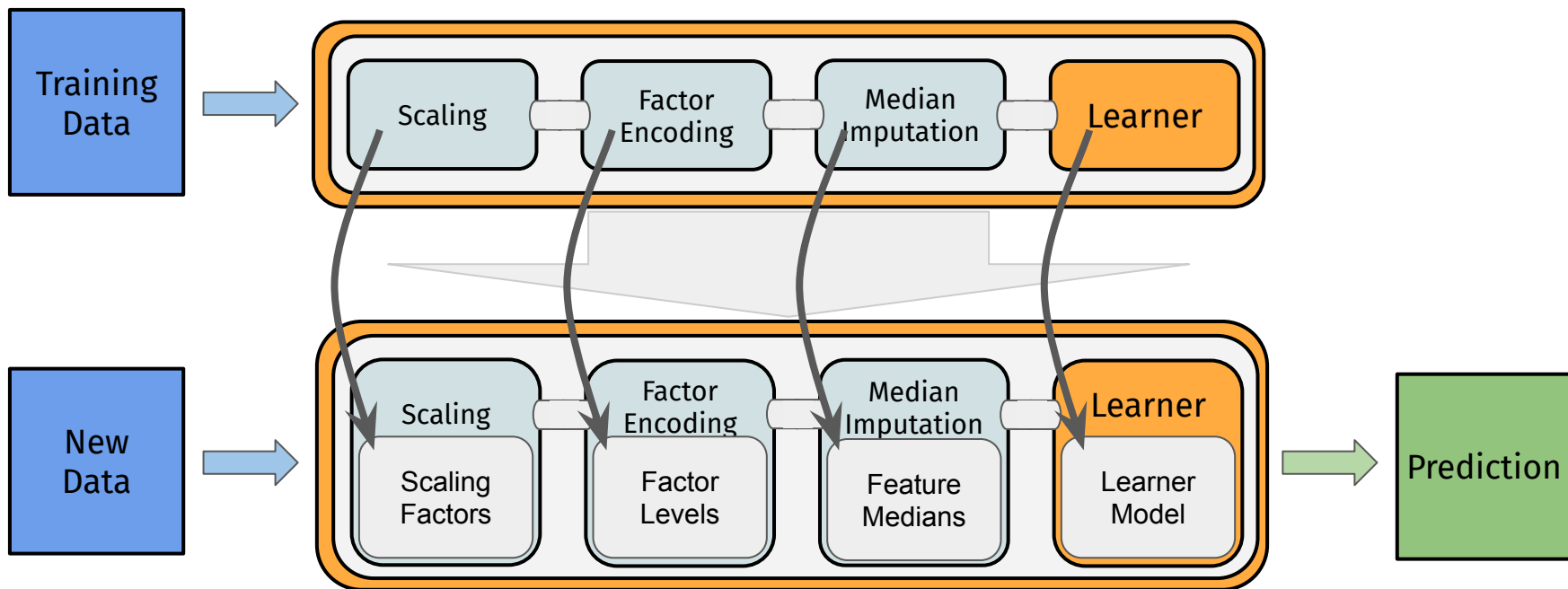


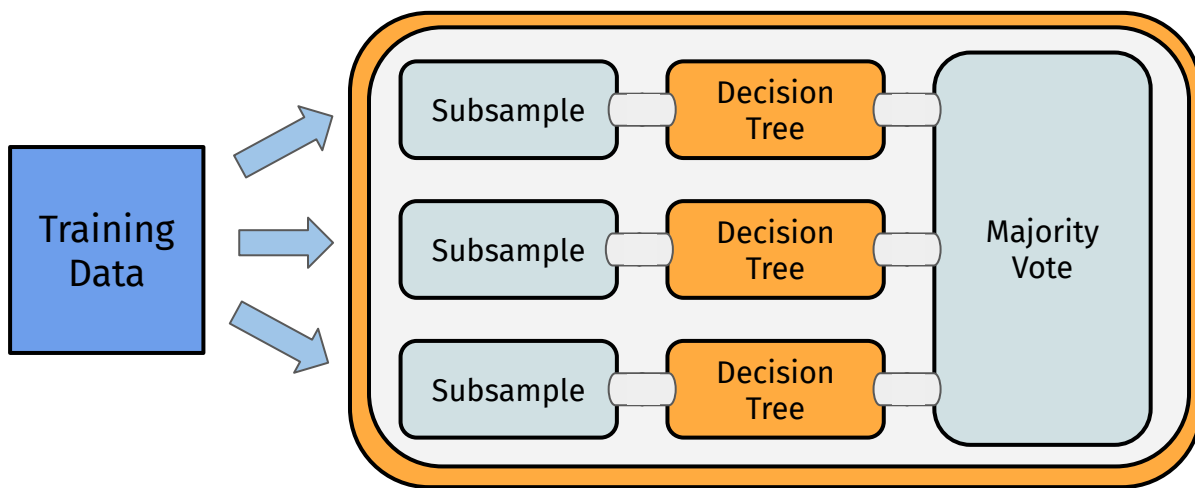


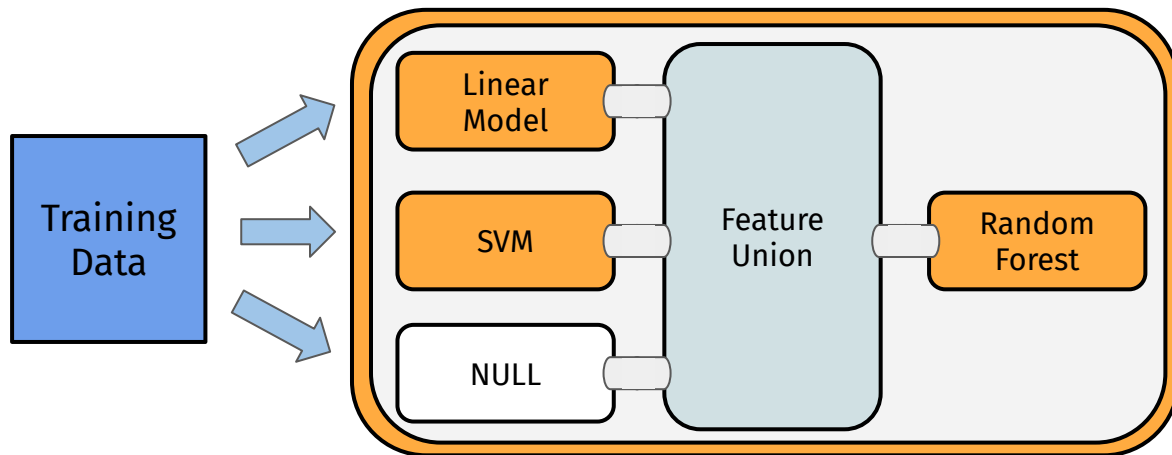




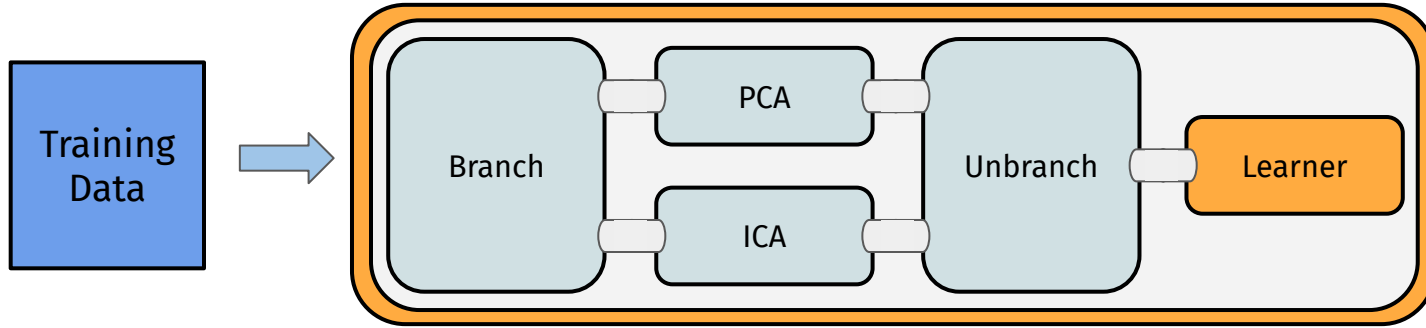




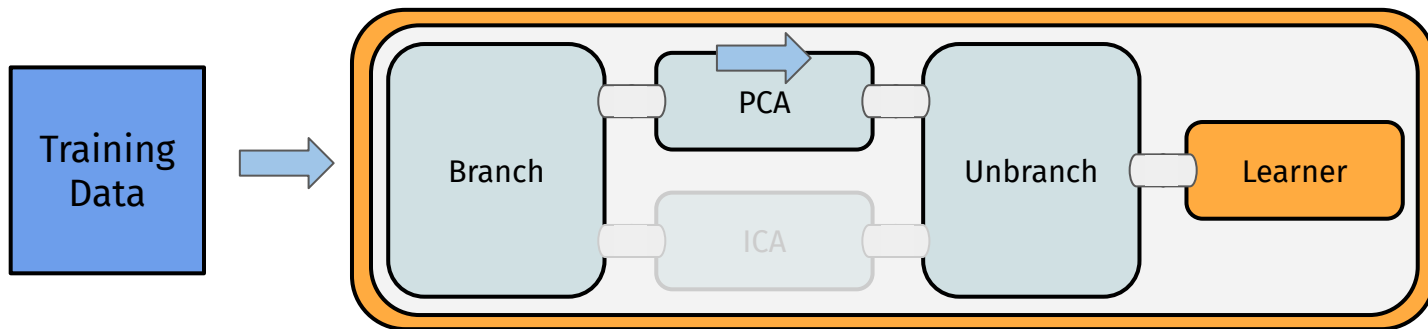




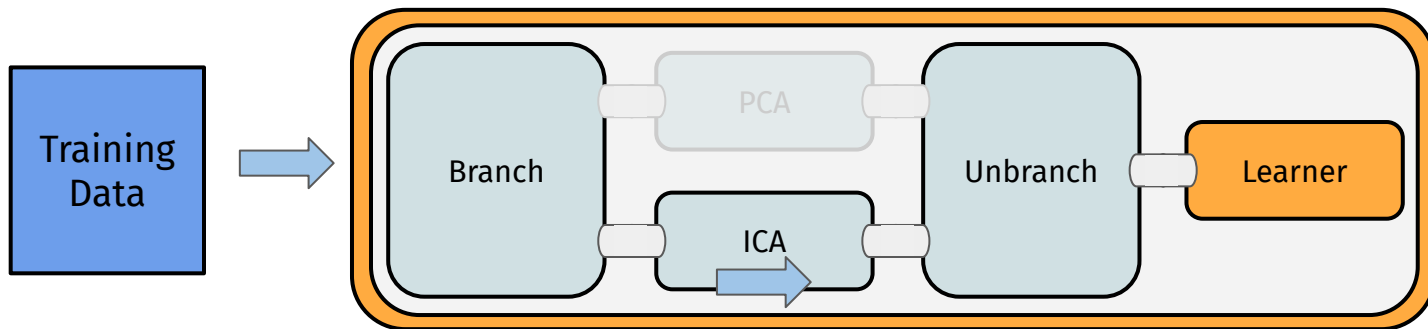
Execute only one of several alternative paths



```
> graph_branch$pipeops$branch$  
  param_set$values$selection = "pca"
```

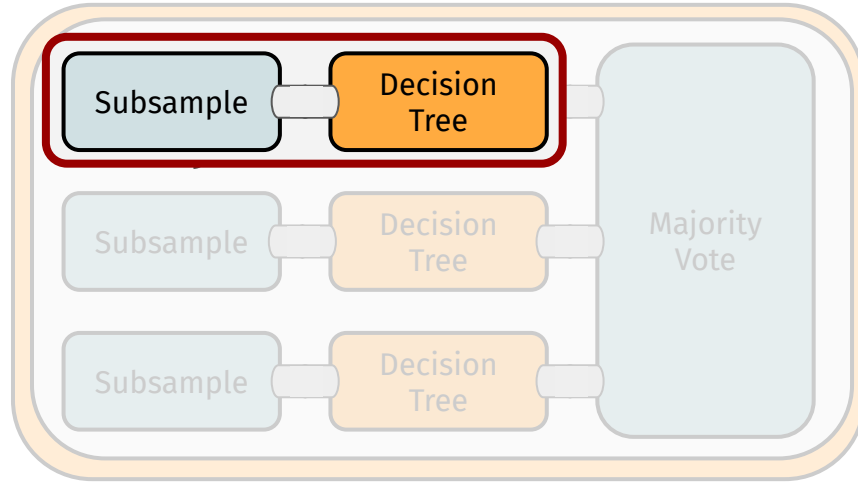


```
> graph_branch$pipeops$branch$  
  param_set$values$selection = "ica"
```





single\_path {



| Software              | mlr3pipelines              | mlr + mlrCPO | recipes    | sklearn.Pipelines          |
|-----------------------|----------------------------|--------------|------------|----------------------------|
| Linear Pipelines      | ✓                          | ✓            | ✓          | ✓                          |
| Conditional Pipelines | ✓                          | ✓            | ✗          | ✗                          |
| parallel              | ✗ *                        | ✗            | ✗          | ✗                          |
| caching               | ✗ *                        | ✓            | ?          | ✓                          |
| Backend               | data.table   Matrix   DB's | data.frame   | tibble DB  | numpy                      |
| Tuning Pipelines      | ✓                          | ✓            | ✗          | ✓                          |
| Ensembling Stacking   | ✓                          | ✓            | ✗          | ✓                          |
| Extensions            | iml, mlr3verse             | mlrMBO, iml  | tidymodels | auto-sklearn, eli5,<br>... |

\* planned

