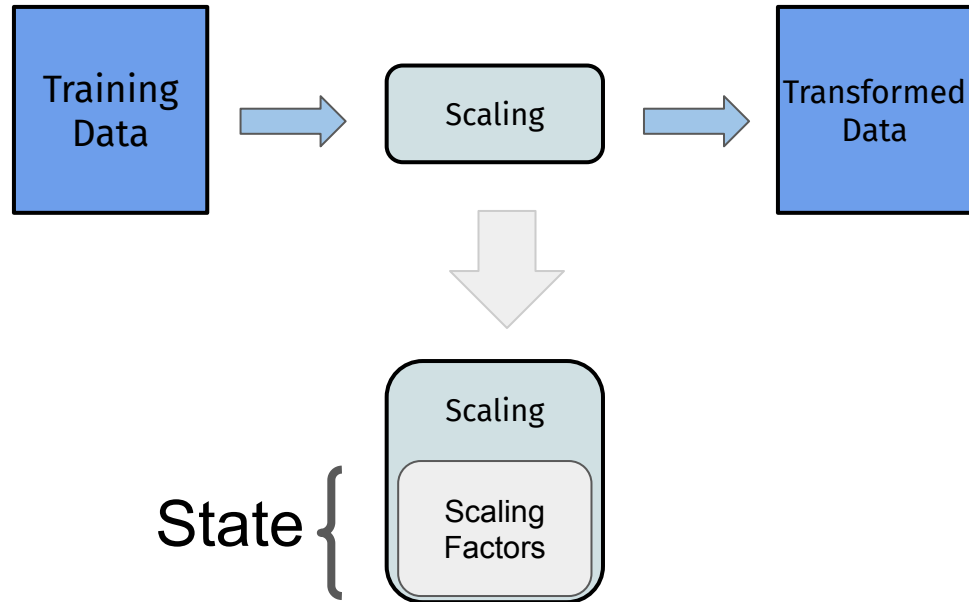
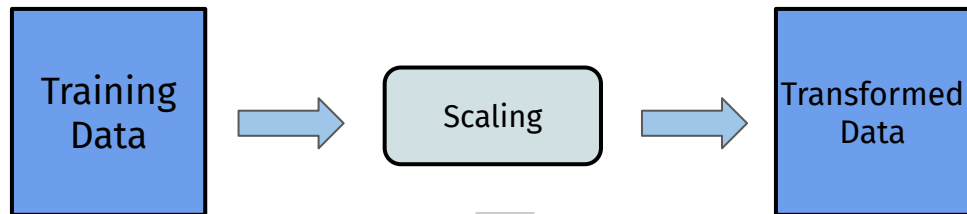


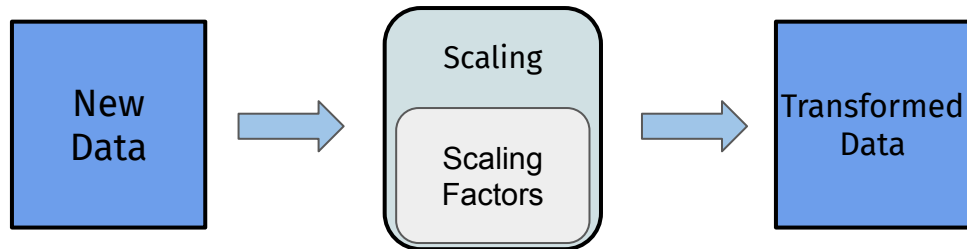
`$train()`

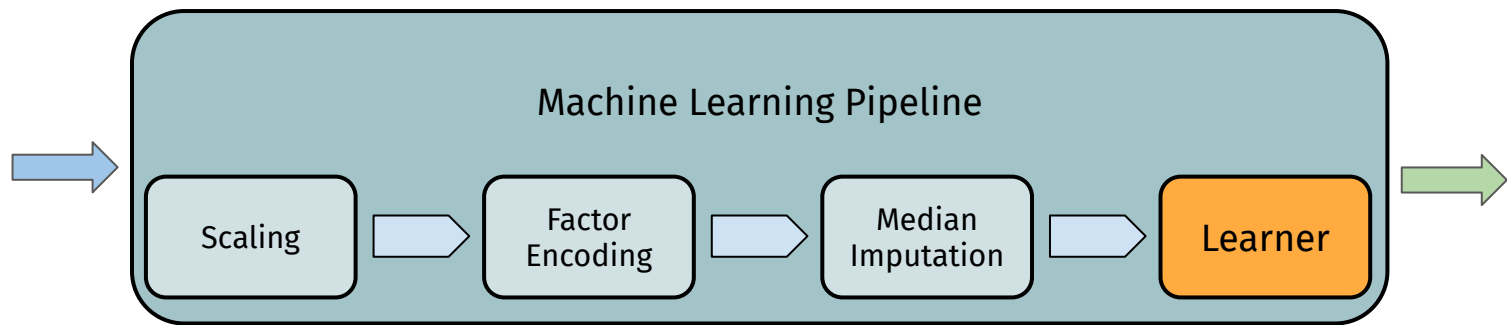


`$train()`

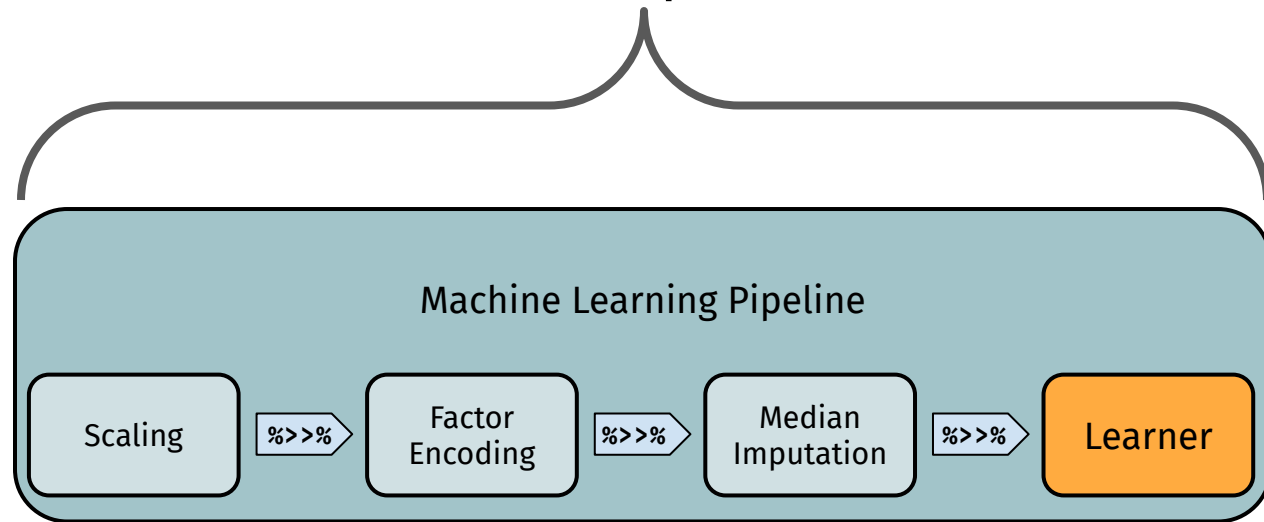


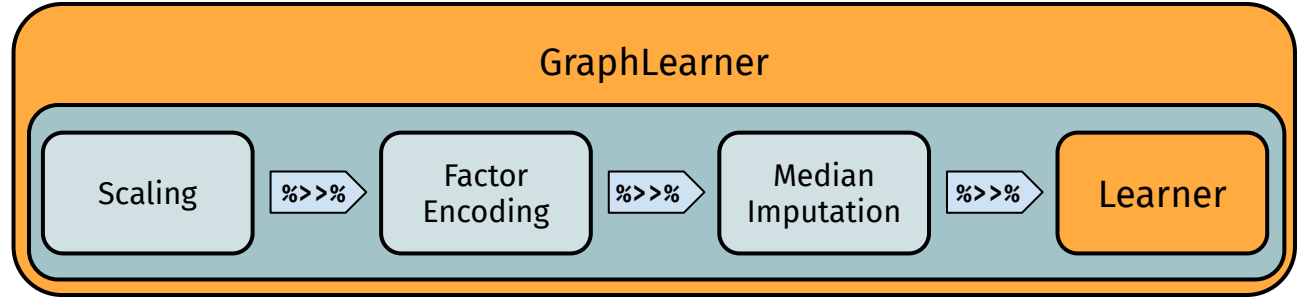
`$predict()`

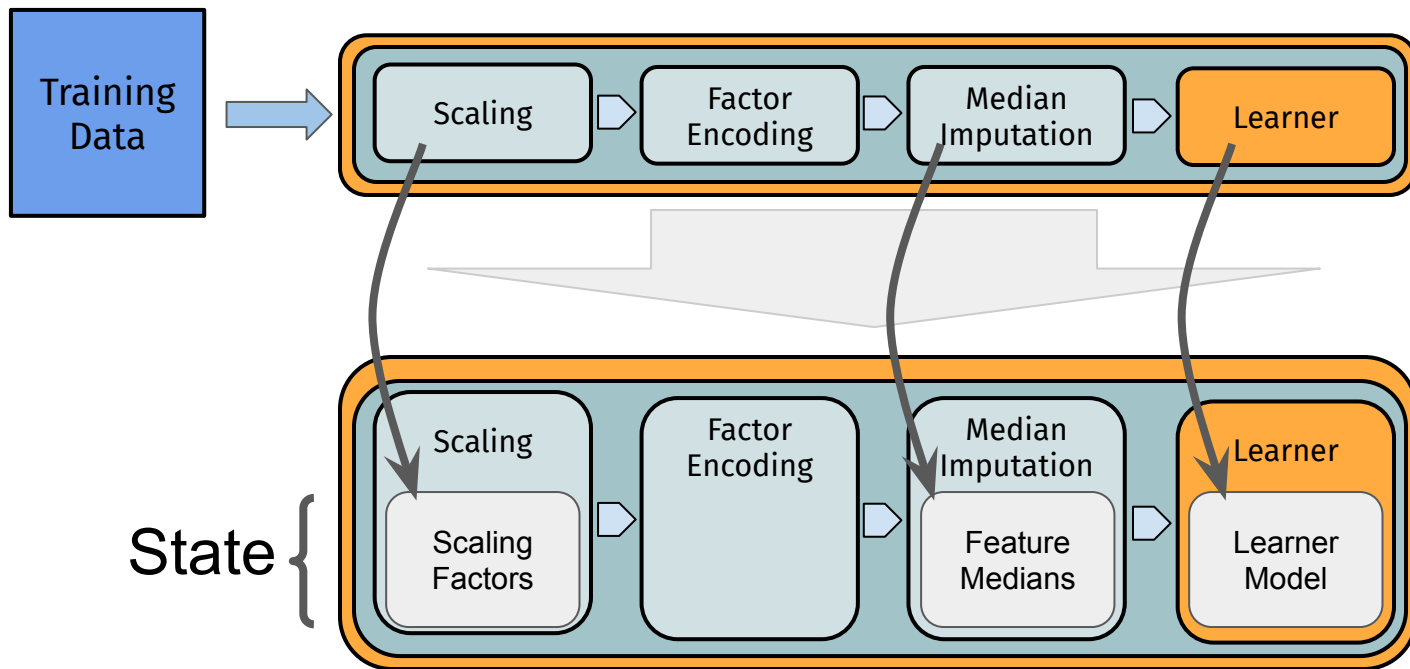


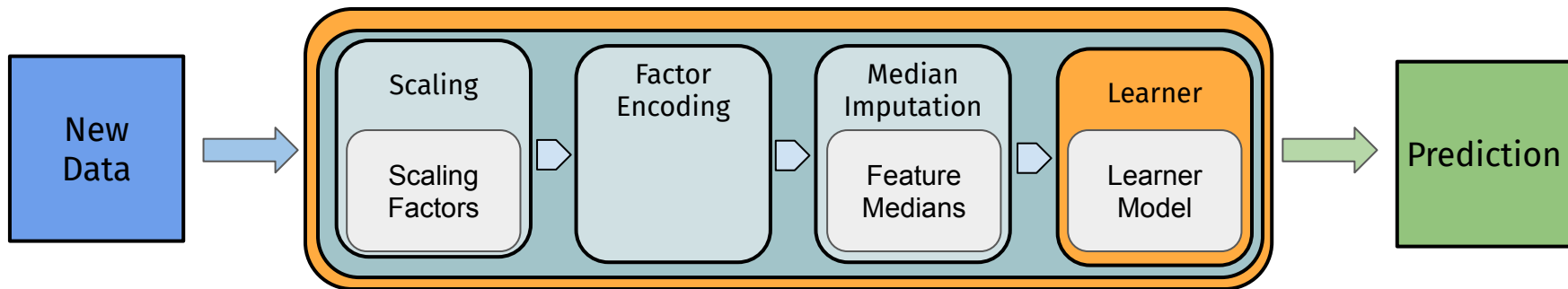


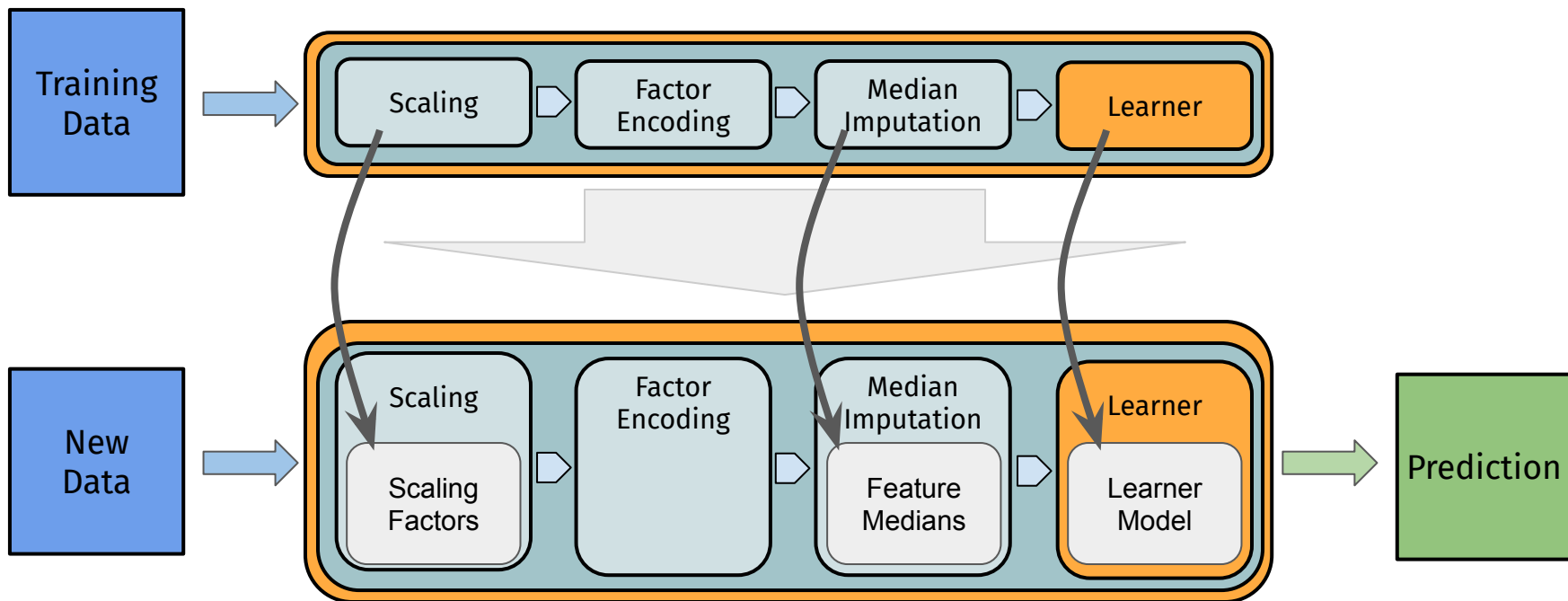
Graph

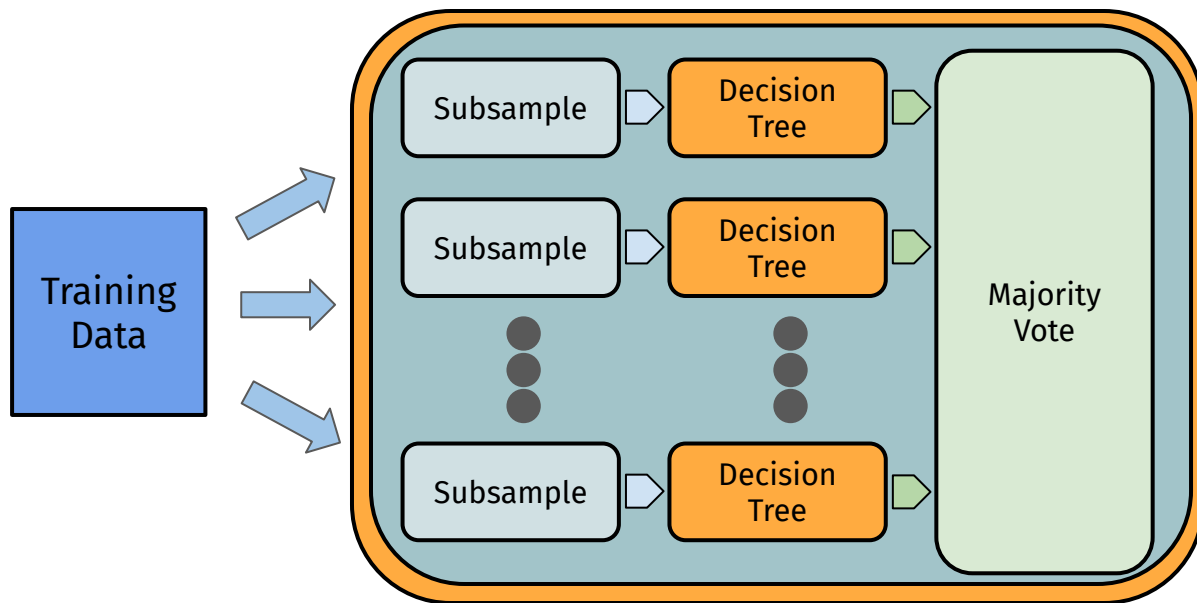


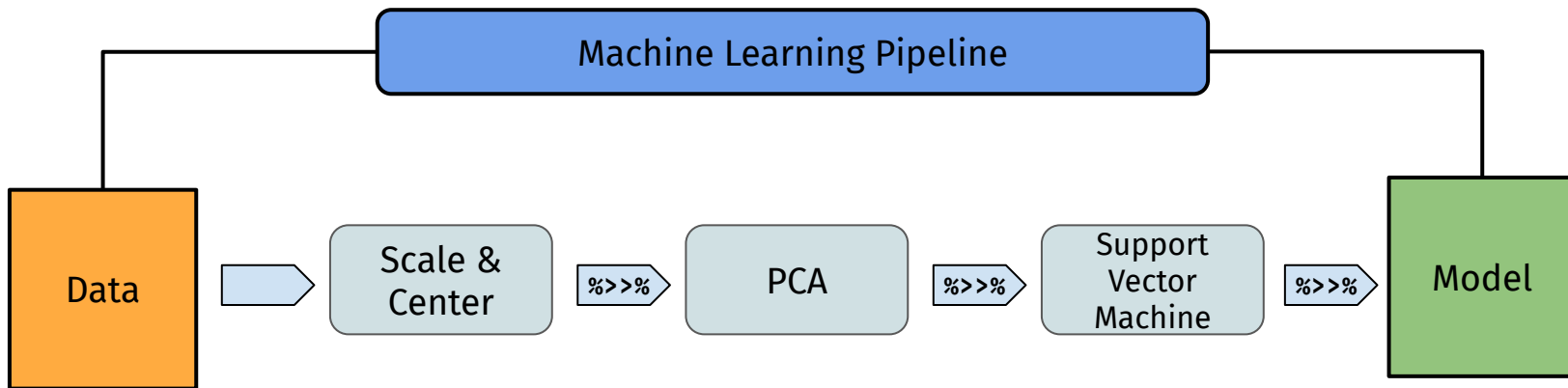




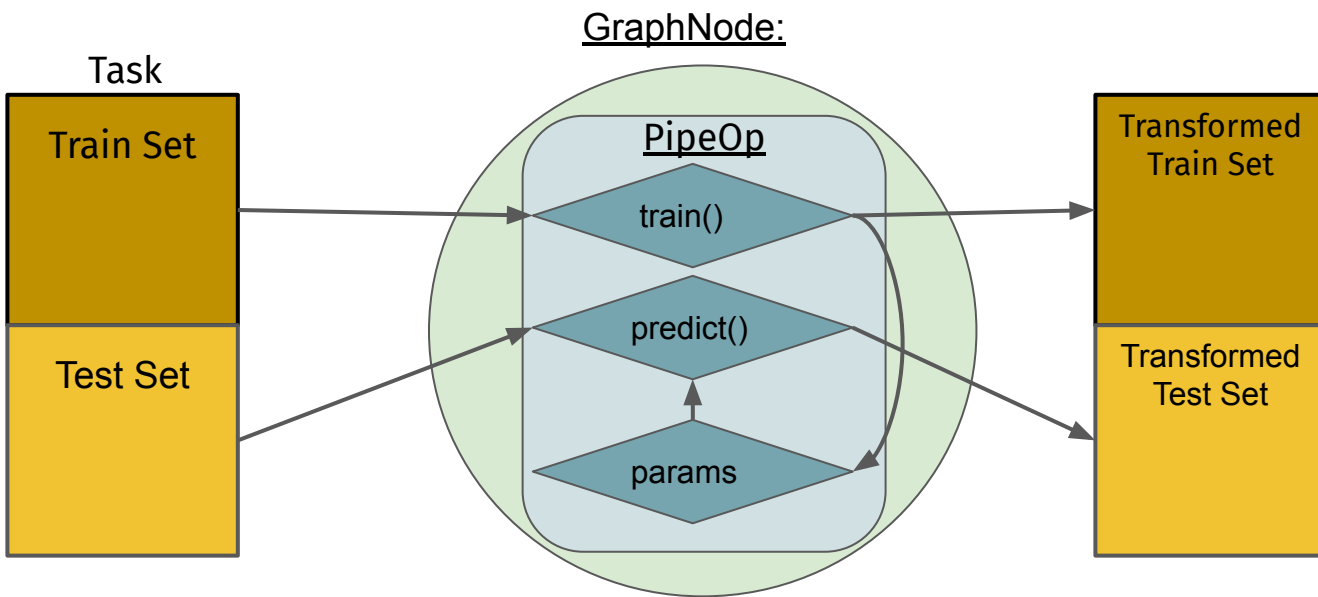






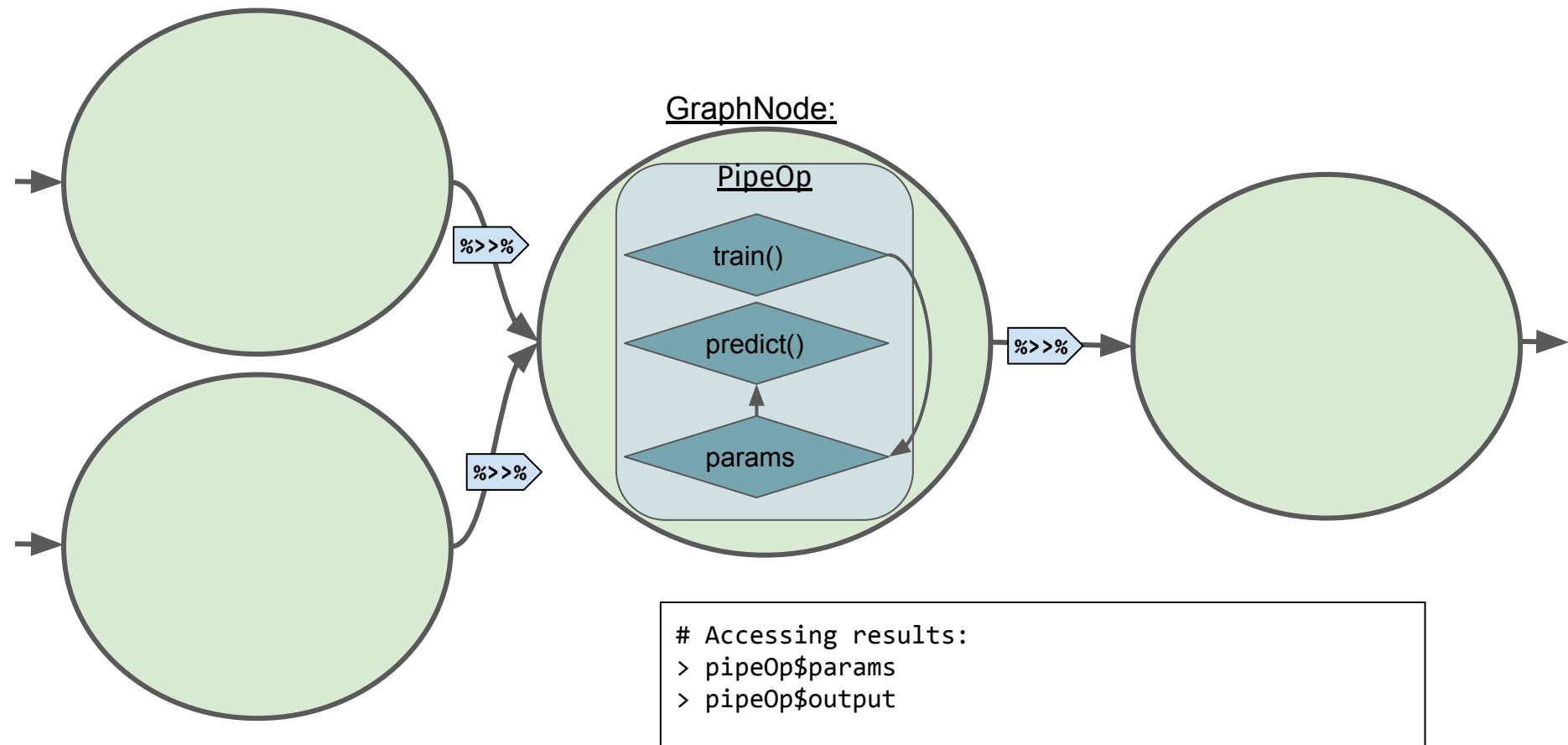


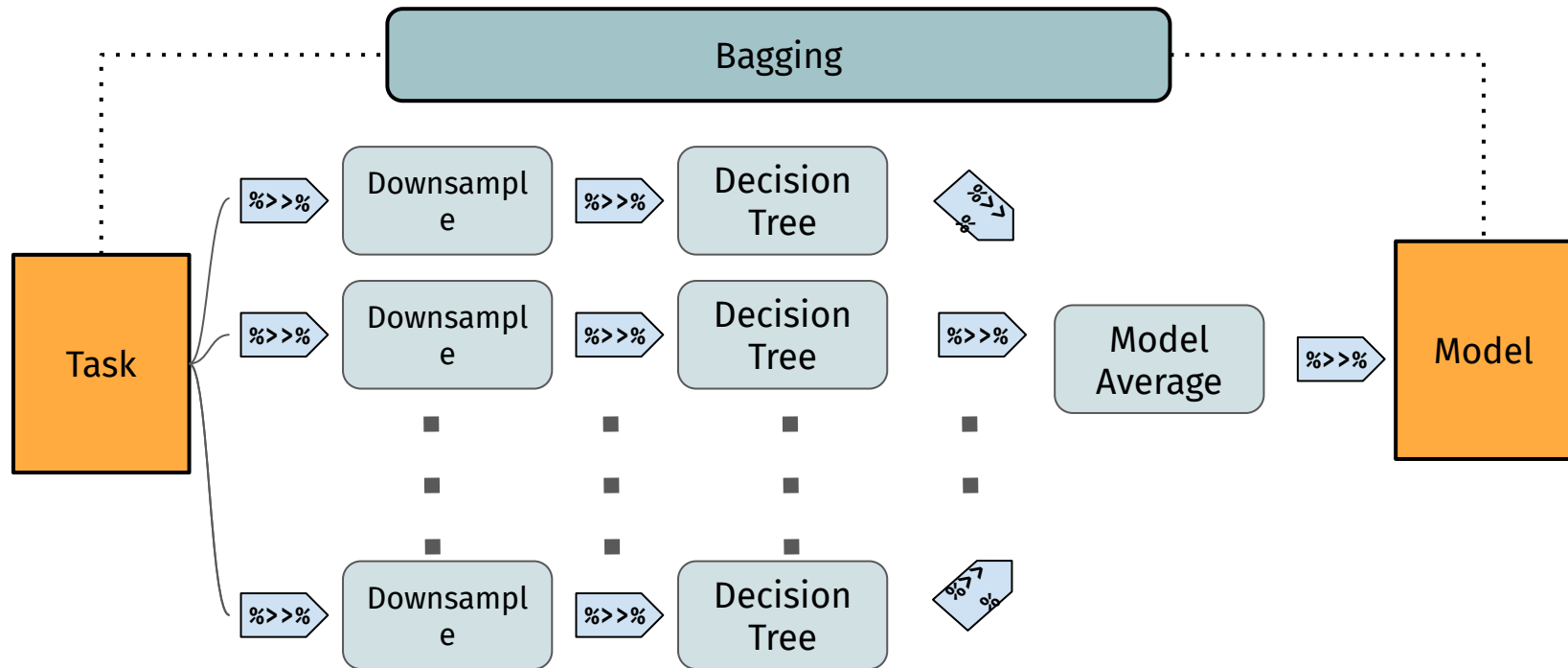
```
# Pseudo Code:  
> pipeOpScale() %>>% pipeOpPCA() %>>% pipeOpLearner("svm")
```



- `train()` saves transformation params and outputs transformed training data.
- `predict()` uses params and outputs transformed test data

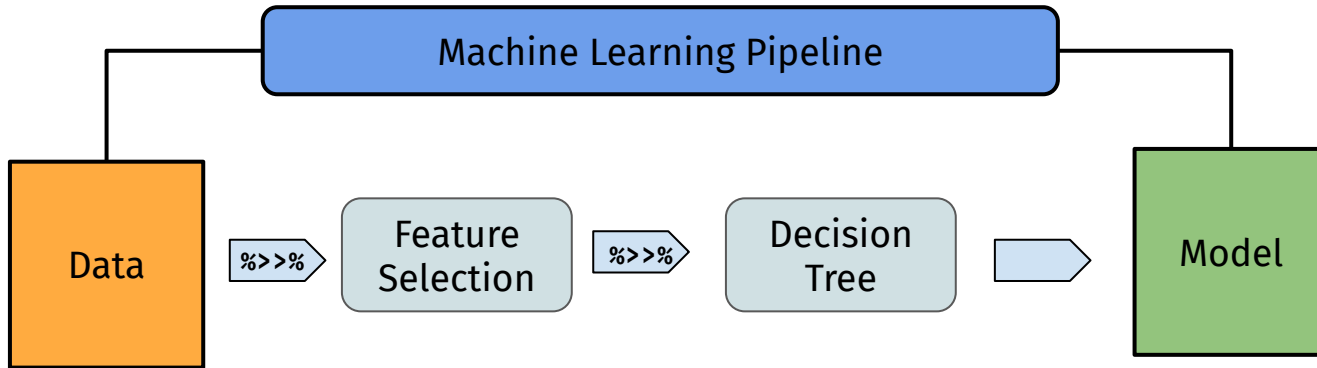
Multiple GraphNode's can be connected with “%>>%”



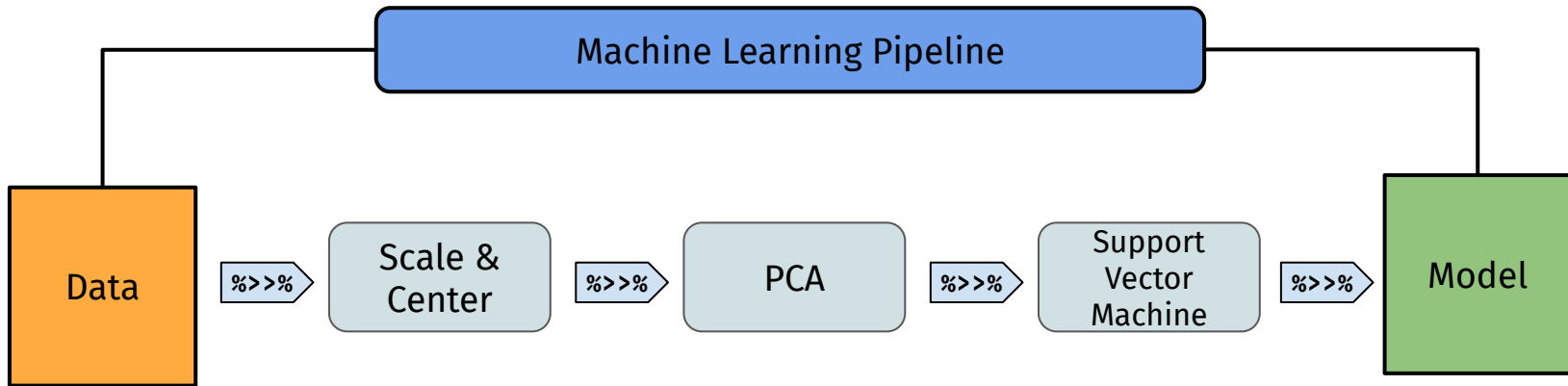


Pseudo Code:

```
> rep(100, pipeOpDownsample() %>% pipeOpLearner("rpart")) %>% pipeOpModelAverage()
```



- Pipelines provide:
 - Multiple widely used operations
(Scaling, PCA, Variable Selection, Imputation, Stacking and many others)
 - A clean, extendable interface for custom pipeline operators
 - A simple operator connection operator: %>>%
 - An abstraction for parallelization



```
# Pseudo Code:  
> pipeOpScale() %>>% pipeOpPCA() %>>% pipeOpLearner("svm")
```