

16.5.2 PARTIAL LEAST SQUARES

PLS, which we introduced in Section 13.5.1, is a supervised version of PCA. It tries to find components that simultaneously maximize the variation in the predictors while also maximizing the relationship between those components and the outcome. Figure 16.7 shows the results of this slightly modified version of the PCA code:

```
bean_rec_trained %>%  
  step_pls(all_numeric_predictors(), outcome = "class", num_comp = 4) %>%  
  plot_validation_results() +  
  ggtitle("Partial Least Squares")
```

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