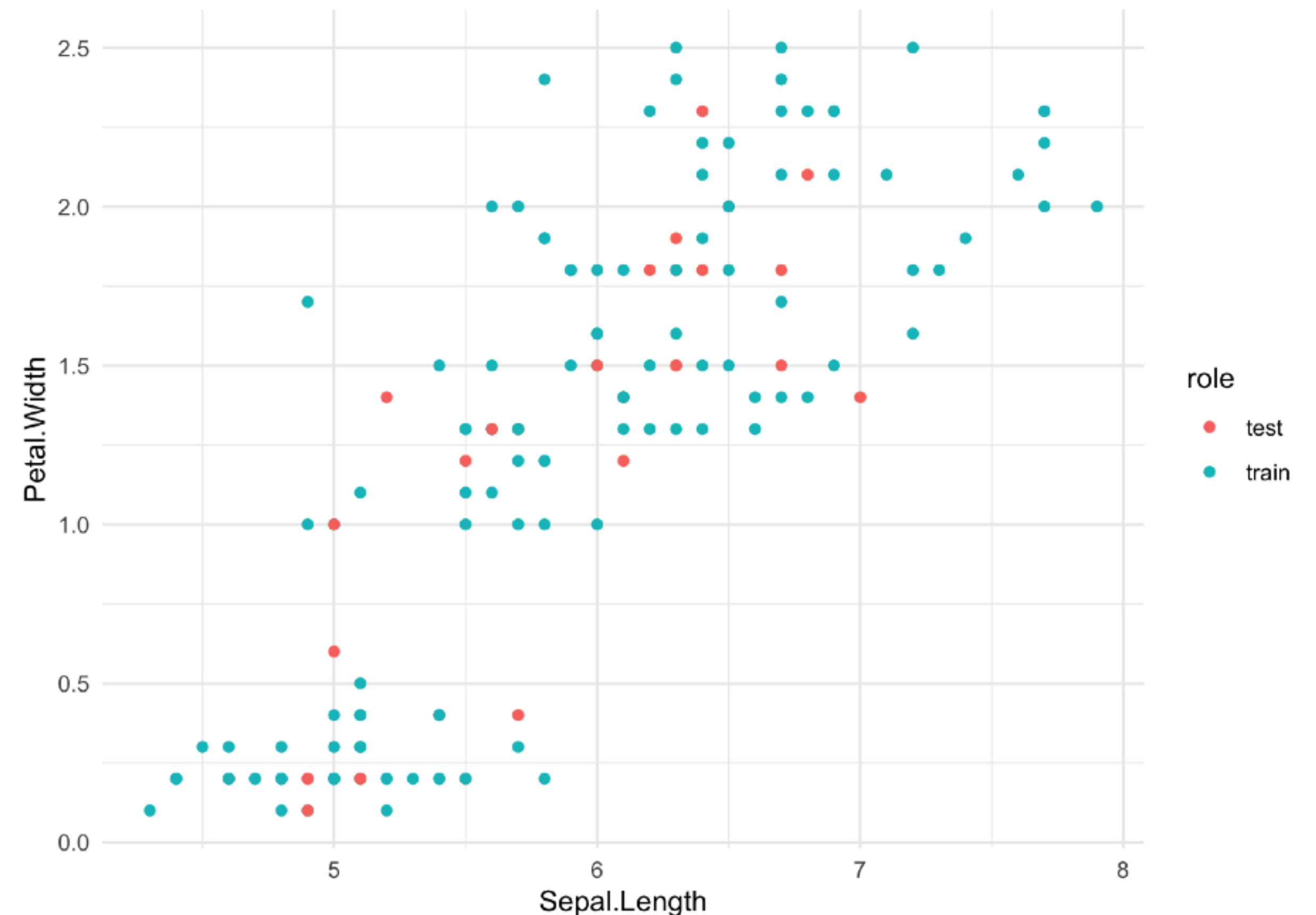


Today's Example I: Iris Data

- Data: 50 flowers in 3 different species and 4 different attributes
- Use some useful packages such as care (Classification And Regression Training)
- Apply linear model and use following performance metrics: R^2 , $RMSE$, MAE
- Validation approaches:
 - Validation set approach
 - LOOCV
 - K-fold CV
 - Repeated K-fold CV



Today's Example II: Simulation

- Use cross validation to estimate test performance of KNN classifier
 - Choosing optimal number of numbers K (using MSE and RMSE)
 - Choosing number of folds in K -fold CV

