

## Hands on Weka: Part II

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## Exercise 2: CAR dataset

- 1728 examples
- 6 attributes
  - 6 nominal
  - 0 numeric
- Nominal target variable
  - 4 classes: unacc, acc, good, v-good
  - Distribution of classes
    - unacc (70%), acc (22%), good (4%), v-good (4%)
- No missing values

## Preparing the data for WEKA - 1

Data in a spreadsheet  
 (e.g. MS Excel)

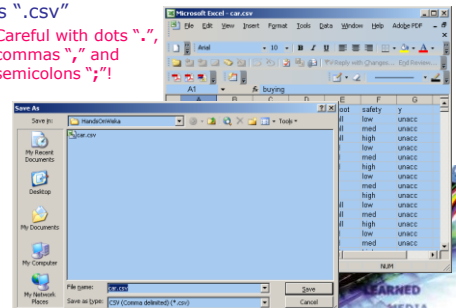
- Rows are examples
- Columns are attributes
- The last column is the target variable

	A	B	C	D	E	F	G
1	buying	unacc	doors	persons	lugboot	safety	?
2	unacc	u-high	2	2	small	low	unacc
3	unacc	u-high	2	2	small	med	unacc
4	unacc	u-high	2	2	small	high	unacc
5	unacc	u-high	2	2	med	low	unacc
6	unacc	u-high	2	2	med	med	unacc
7	unacc	u-high	2	2	med	high	unacc
8	unacc	u-high	2	2	big	low	unacc
9	unacc	u-high	2	2	big	med	unacc
10	unacc	u-high	2	2	big	high	unacc
11	unacc	u-high	2	4	small	low	unacc
12	unacc	u-high	2	4	small	med	unacc
13	unacc	u-high	2	4	small	high	unacc
14	unacc	u-high	2	4	med	low	unacc
15	unacc	u-high	2	4	med	med	unacc

## Preparing the data for WEKA - 2

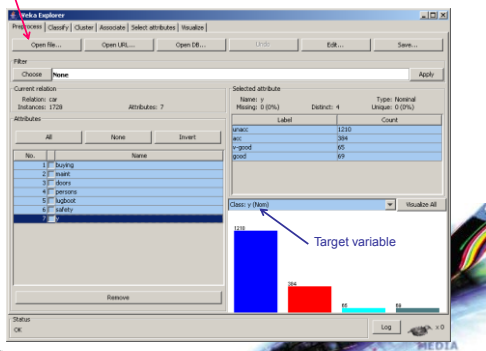
Save as ".csv"

- Careful with dots ".", commas "," and semicolons ";"!

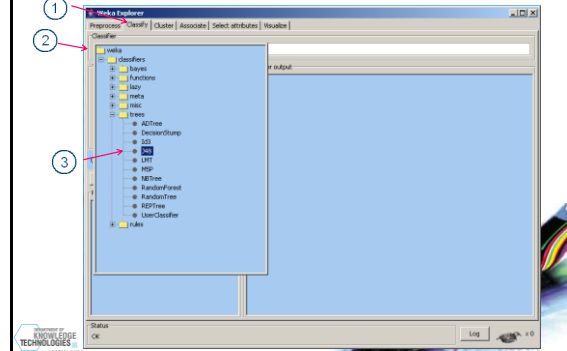


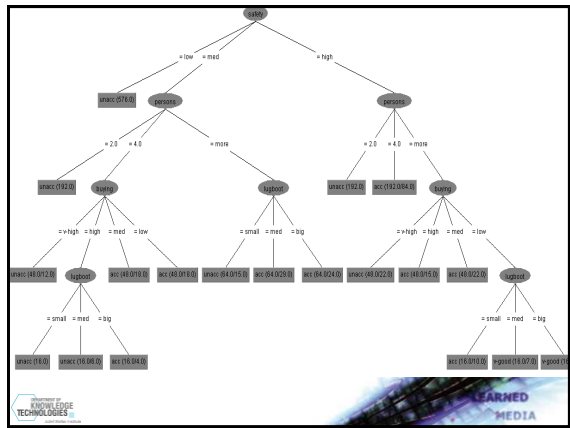
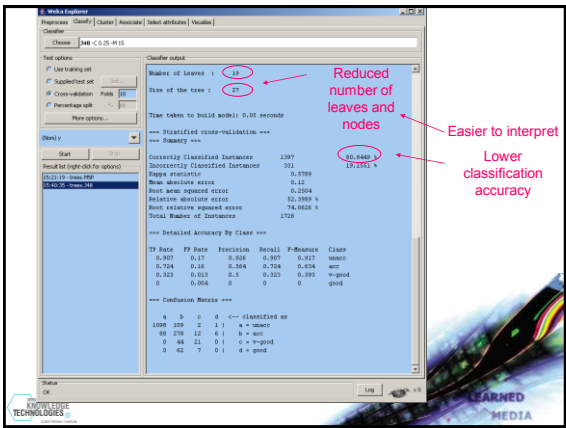
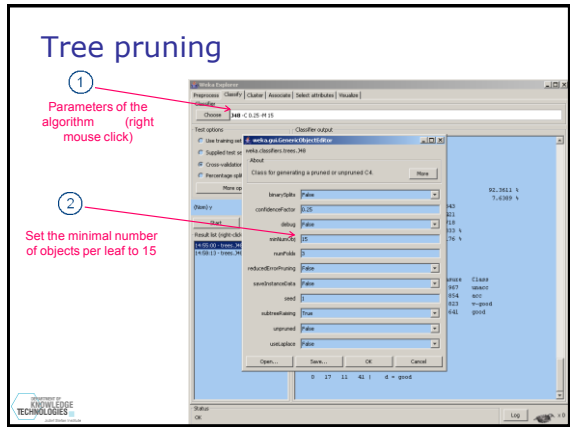
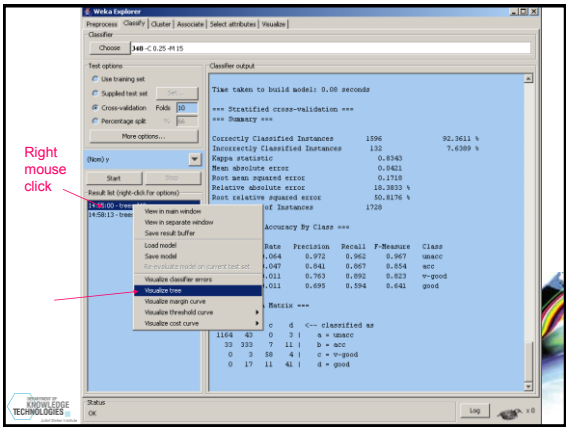
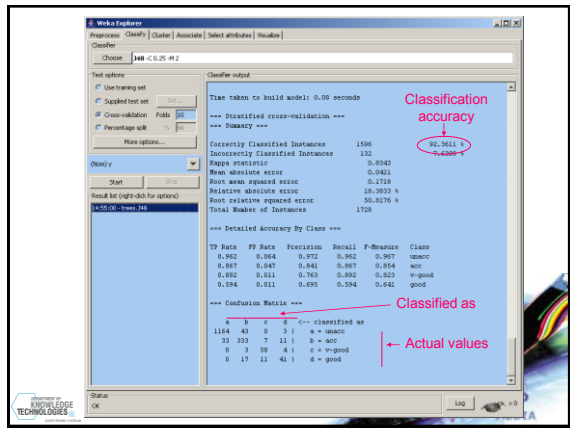
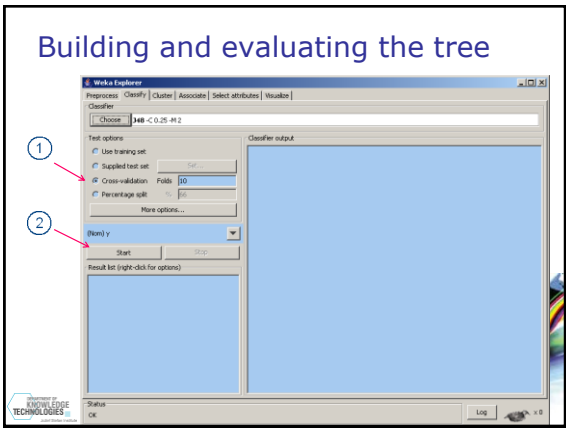
## Load the data

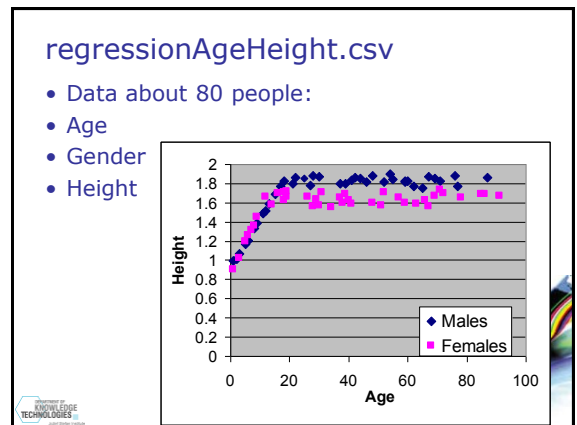
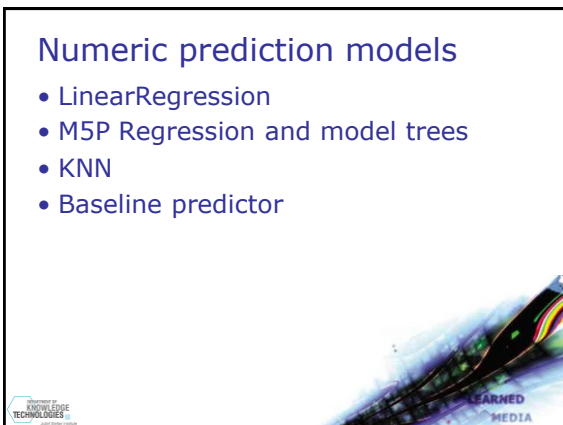
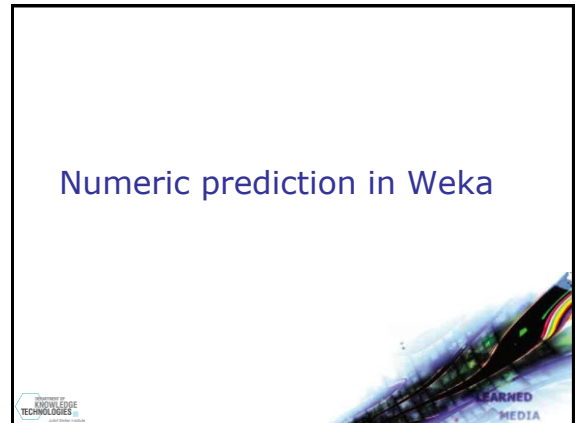
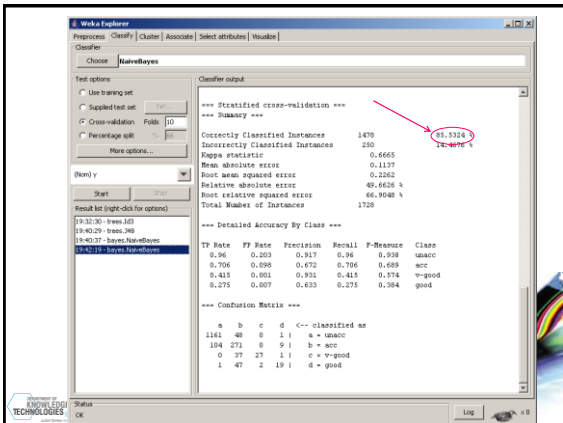
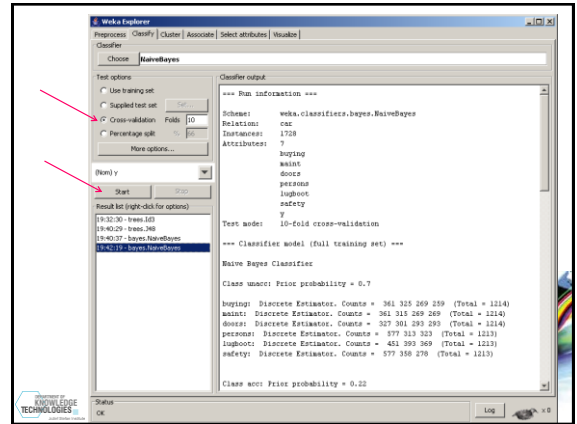
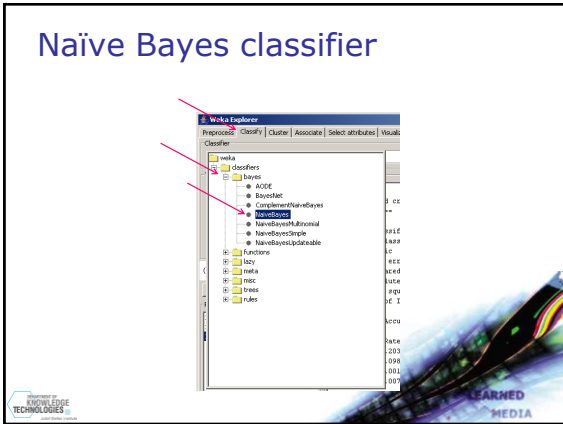
Car.csv

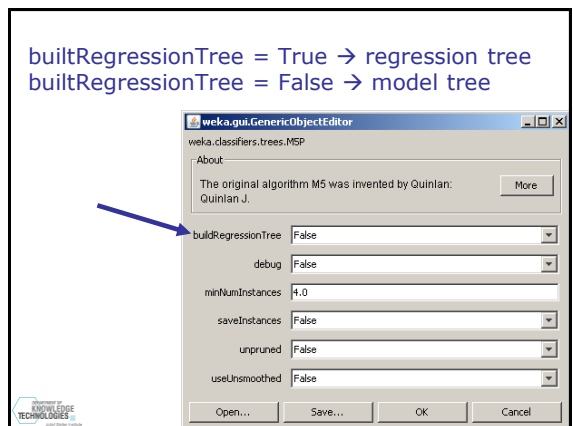
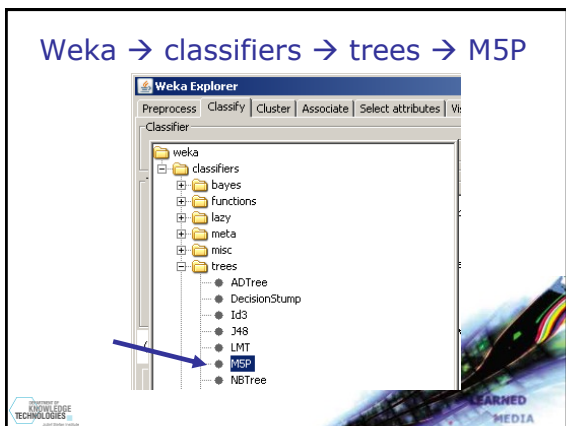
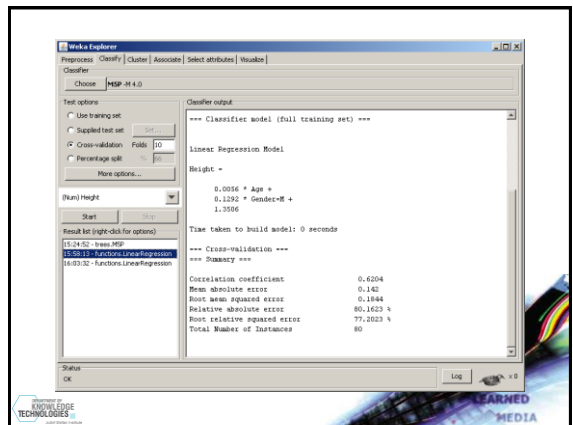
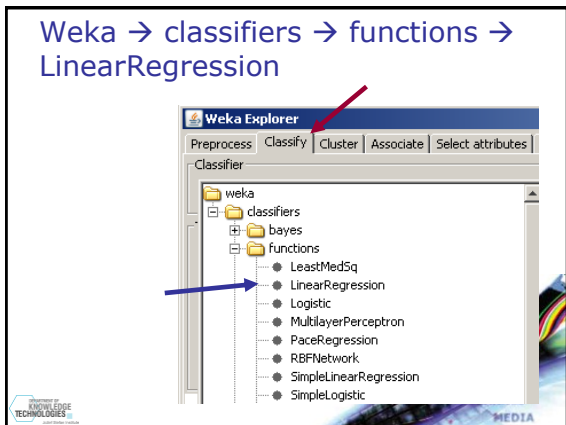
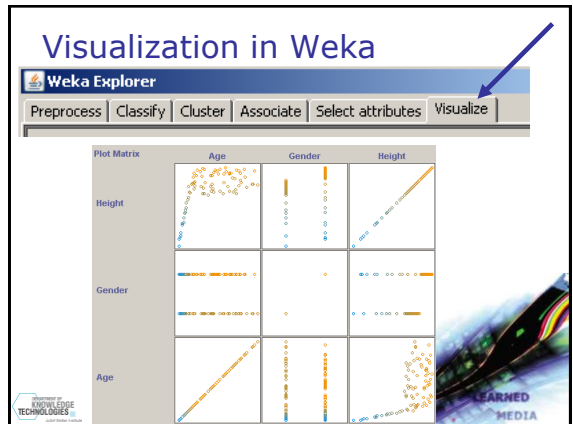
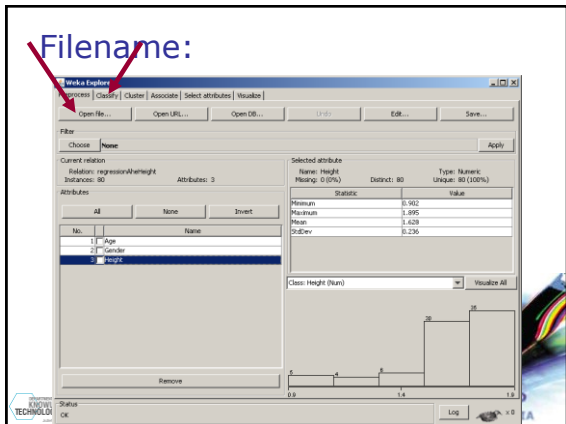


## Choose algorithm J48

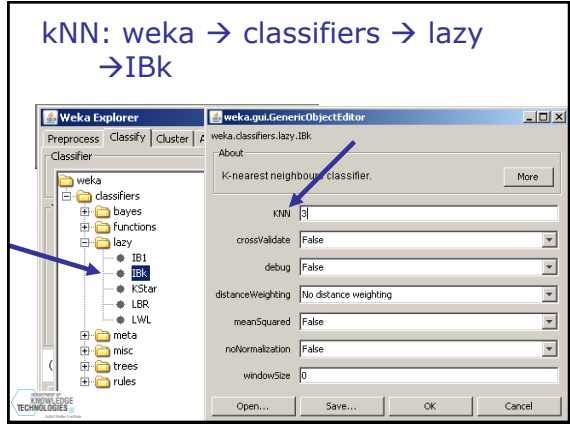








kNN: weka → classifiers → lazy  
→IBk



Weka → classifiers → rules →  
ZeroR

