ML PERFORMANCE

HANDS ON

JEROEN VEEN
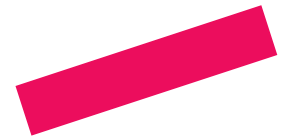
CONFUSION MATRIX

ACTUAL

PREDICTED

(Type I error)

True Positive (TP)
Reality: A wolf threatened.
Shepherd said: "Wolf."
Outcome: Shepherd is a hero.

False Positive (FP)
Reality: No wolf threatened.
Shepherd said: "Wolf."
Outcome: Villagers are angry at
shepherd for waking them up.

False Negative (FN)
Reality: A wolf threatened.
Shepherd said: "No wolf."
Outcome: The wolf ate all the sheep.

True Negative (TN)
Reality: No wolf threatened.
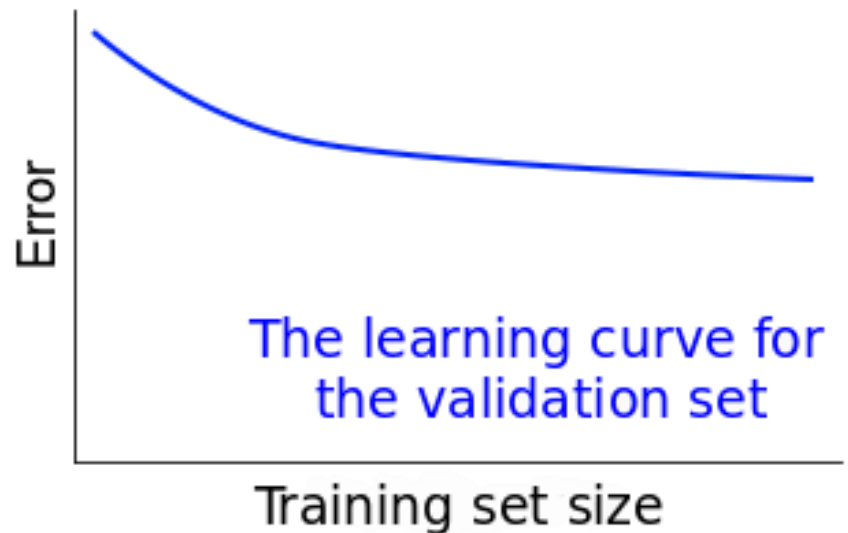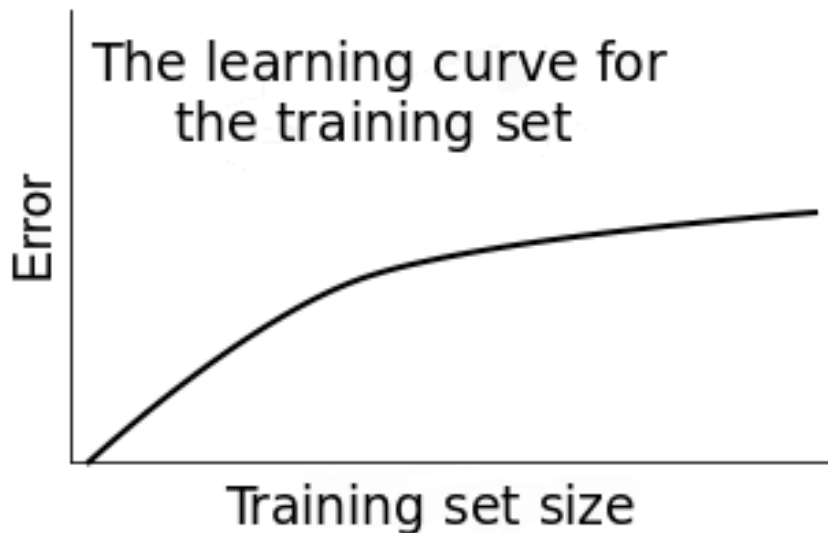Shepherd said: "No wolf."
Outcome: Everyone is fine.

Type II error)

HAN_UNIVERSITY
OF APPLIED SCIENCES

TRY IT FOR YOURSELF

- performance_01.py
  performance_02.py

LEARNING CURVES

- Cost as a function of the training set size (or the training iteration)

- Examine evolution of train and validation learning curves

Source: https://www.dataquest.io/blog/learning-curves-machine-learning/

HAN_ UNIVERSITY
OF APPLIED SCIENCES

TRY IT FOR YOURSELF

- performance_03.py

WORK ON YOUR EVD3 PROJECT