

# Introduction to Machine Learning

## Revision Session

# Exam

~~Exam~~

TRA

# ~~Exams~~ TRA rubrics

3 out of 3 questions, 90 minutes

Answerbook

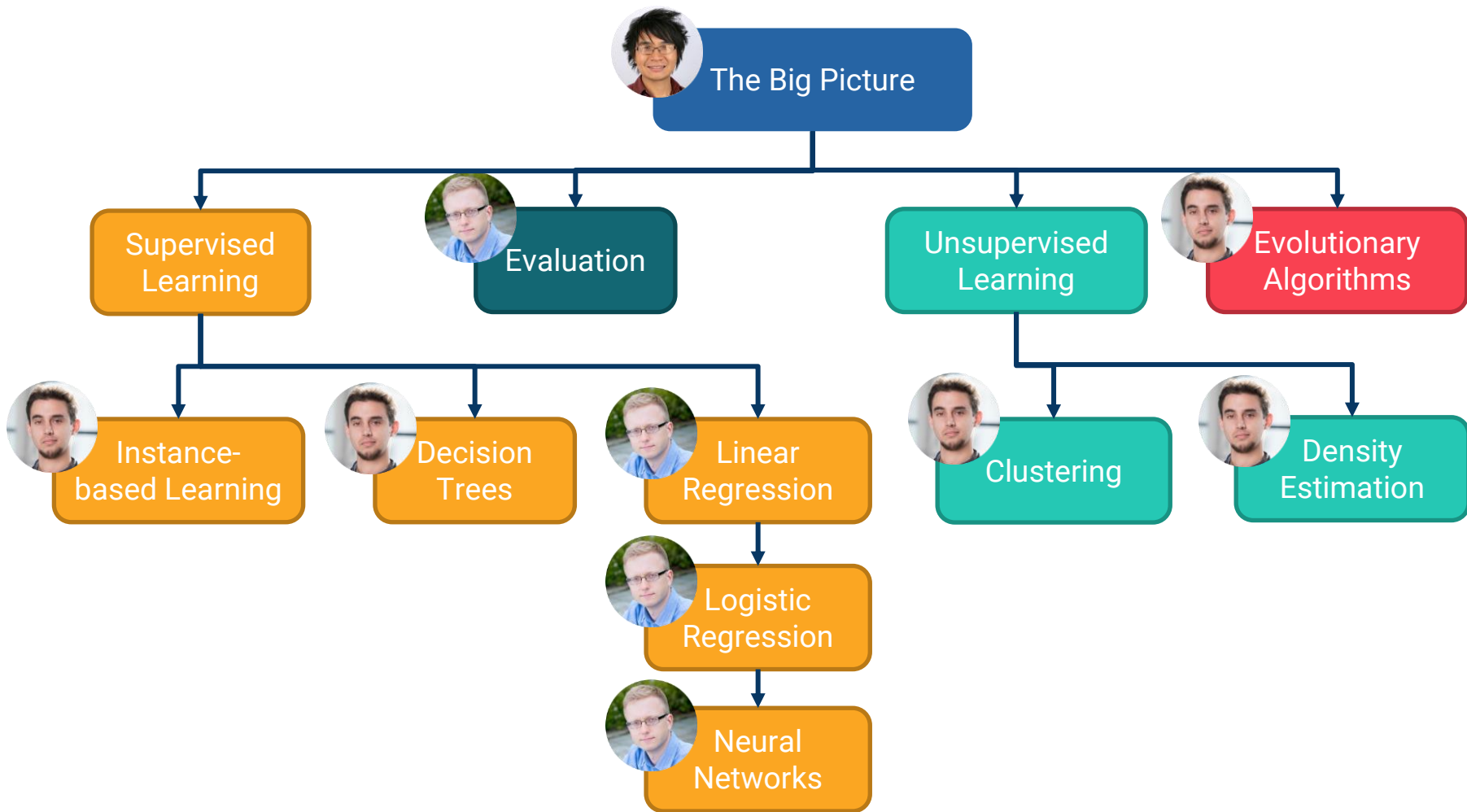
# ~~Exam~~ TRA style

- No “bookwork”
- Key point: **Understanding**
  - Blind memorising will not get you far
  - Need to **apply** your understanding to solve problems
- Answer format:
  - Short or longer answers
  - Calculations
  - Drawing diagrams

**What is examinable**

**Everything covered in lectures  
(unless mentioned otherwise)**

**You do not need to know more than  
what is mentioned in the lecture**



# Practise

- Quizzes and Exercises
- Past year papers
  - C553 19/20 (reference “difficulty” level)
  - C395 18/19 and 19/20
  - All previous years are still useful
    - “Classification rate” = accuracy
    - “Unweighted average recall” = macro-averaged recall
    - Ignore anything unfamiliar: CANDIDATE-ELIMINATION, Case-based reasoning etc. (before 18/19)



# Your courseworks

- Important to understand your courseworks
  - Gives a complete view of what was covered in lectures
- Look through all the code
  - The bits you implemented
  - The bits you did not implement
  - Make sure you understand all of them

# DoCPA

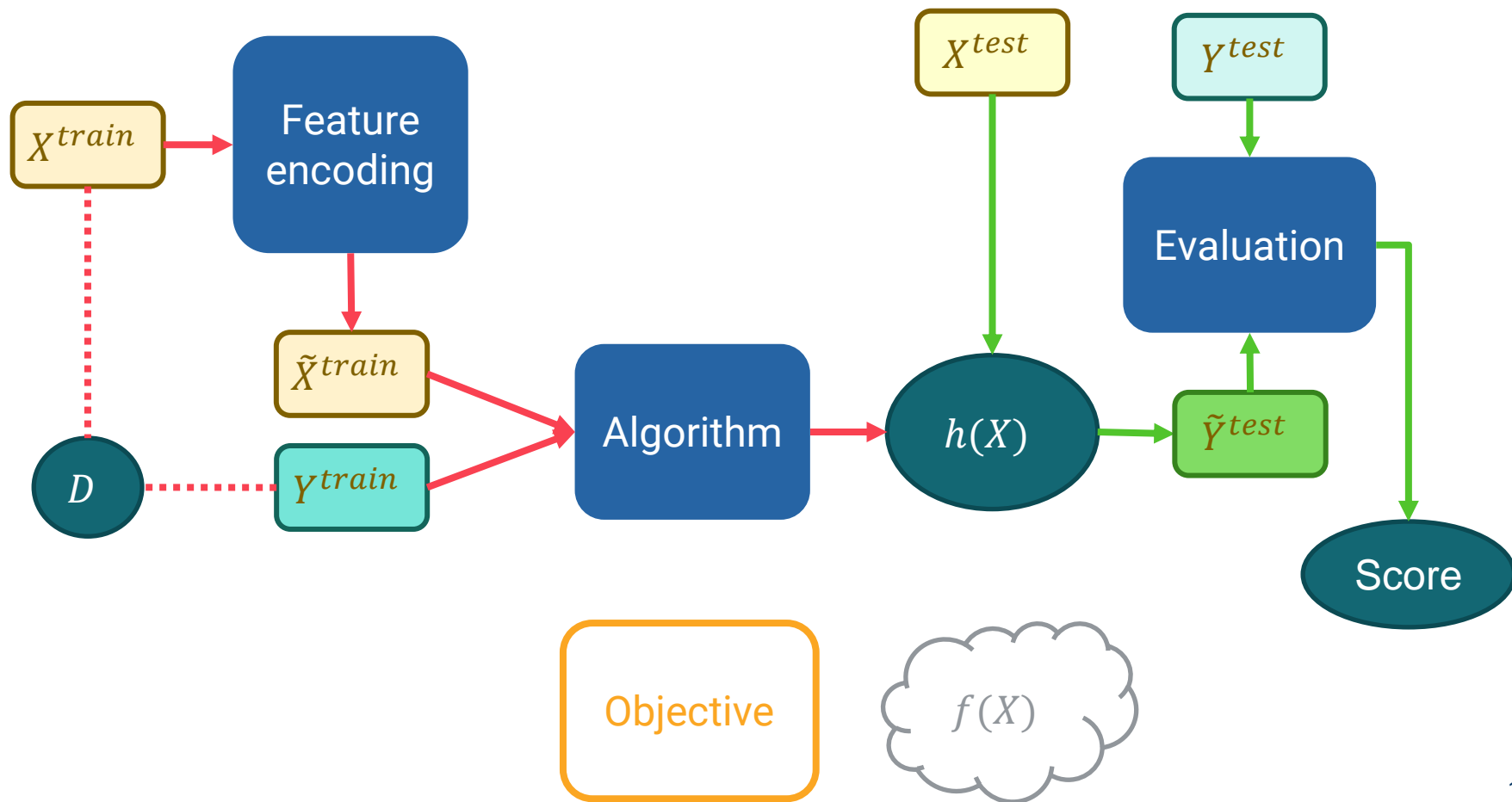
- DoCPA for Coursework 2 is up
- <https://docpa.doc.ic.ac.uk>

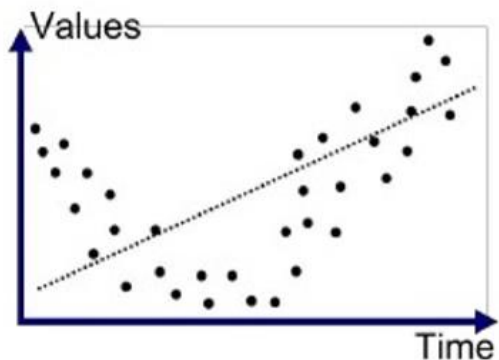
# Introduction to Machine Learning



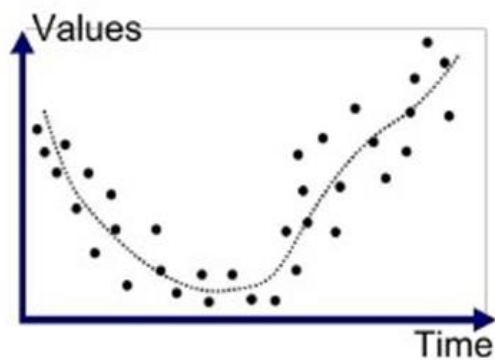
## Module 1

- Settings
  - Supervised learning
  - Unsupervised learning
  - Reinforcement learning
- Classification vs Regression
- Eager vs lazy learners

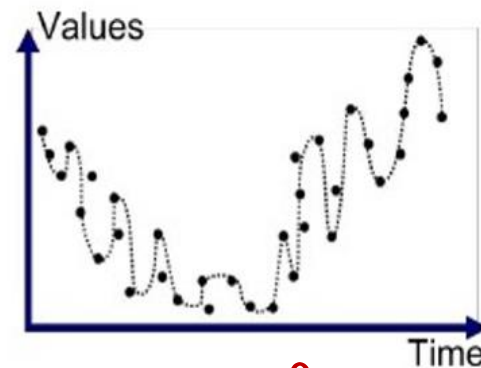




Underfit



Robust, good fit



Overfit



*Occam's razor: More things should not be used than are necessary.*