

Tutorial 08 ID4**Introduction**

In this tutorial, you will apply ID4 to update the decision tree obtained from last tutorial when given new example. Refer to Lecture 05 handout for completing this tutorial.

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Task 1. ID4

In Task 1 of Tutorial 07, you have applied ID3 to construct the decision tree based on 6 given examples. So you have the decision tree constructed using ID3 from examples 1-6 and then you receive a new example 7. Instead of using the simple updating procedure, now use the ID4 algorithm to modify the decision tree. The same examples are repeated below:

Example	Attribute F: Car in front?	Attribute B: Car behind?	Attribute N: Car next lane?	Action
1	No	No	No	Turbo
2	Yes	Yes	Yes	Maintain speed
3	No	Yes	Yes	Maintain speed
4	Yes	No	No	Change lane
5	Yes	Yes	No	Change lane
6	No	Yes	No	Turbo
7	No	No	Yes	Turbo

Task 2. Complete the Canvas Quiz

Complete the quiz "Tutorial 08" on the [Canvas](#) course page (Assignments > Tutorial 08) before the posted deadline.