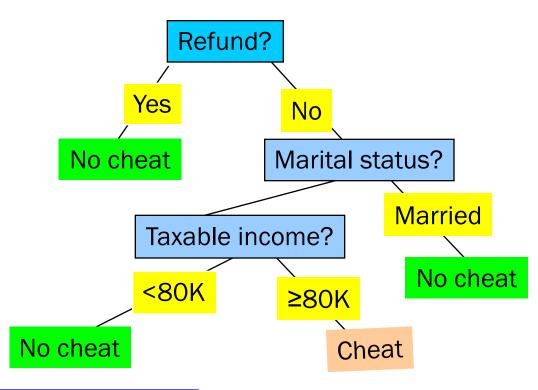


# **APPLY MODEL**

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# CONVERTING DECISION TREE TO DECISION RULES



Tree can be displayed as a set of rules:

if Refund = "Yes," then "No cheat"
else if Marital\_status = "Married," then "No cheat"
 else if Taxable\_income < 80K, then "No cheat"
 else "Cheat"</pre>

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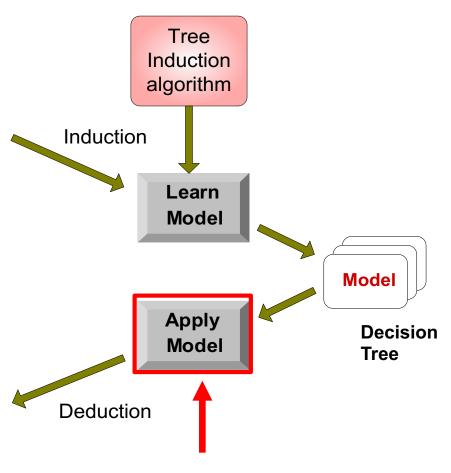
## **DECISION TREE CLASSIFICATION TASK**



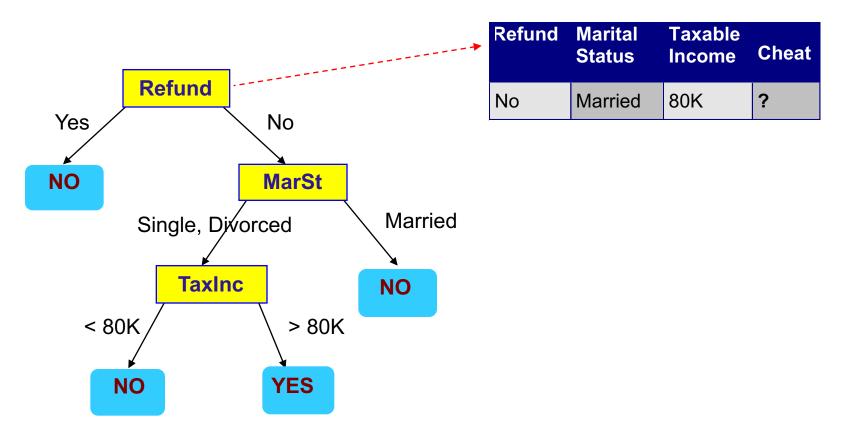
**Training Set** 

Tid	Attrib1	Attrib2	Attrib3	Class
11	No	Small	55K	?
12	Yes	Medium	80K	?
13	Yes	Large	110K	?
14	No	Small	95K	?
15	No	Large	67K	?

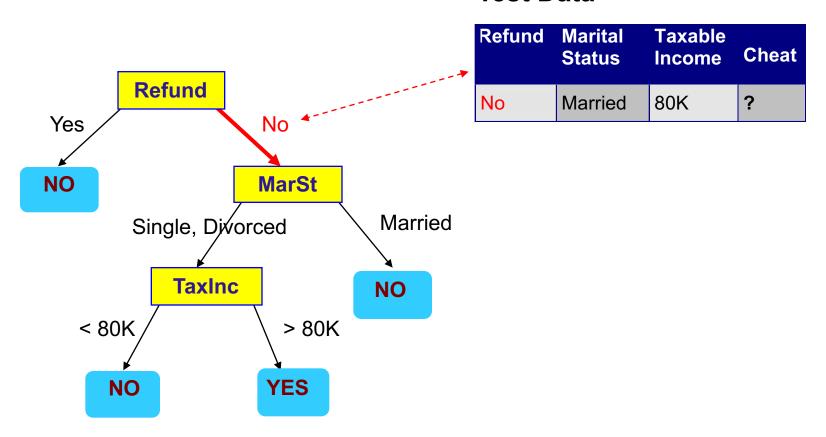
**Test Set** 



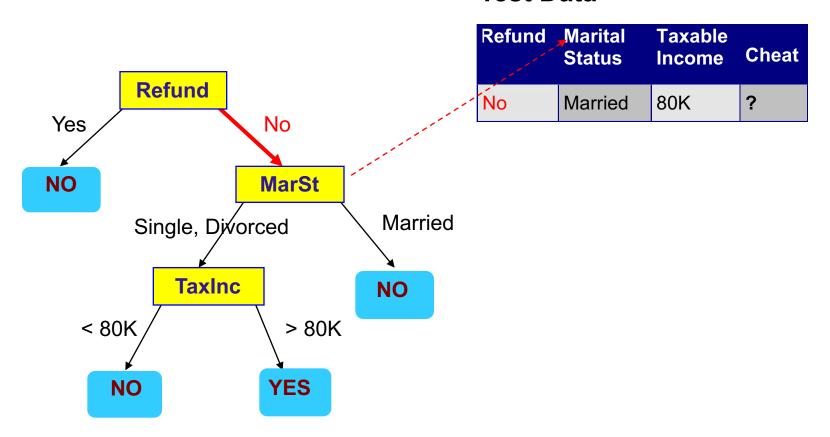
#### **Test Data**



#### **Test Data**



#### **Test Data**



#### **Test Data Marital** Refund **Taxable** Cheat **Status** Income Refund Married 80K ? No Yes No NO **MarSt** Married Single, Divorced **TaxInc** NO < 80K > 80K YES NO

