1. Build a statistical model based on weather and data
2. Rule based or decision tree
3. We get attributes and outcome as a table
4. Attributes can be numerical or conditions like category or nominals values

There are various way we can build a model to predict the outcome.

1. Linear model : Every attribute is given a weightage and summation of the variable may be formulated for the outcome.
   1. f(x1,x2,x3,x4) = c1x1 + c2x2 + c3x3 + c4x4
   2. f(x1,x2,x3,x4) >= K then outcome can be predicated

2. Classification problem : Main way of representing a classical problem is decision tree

3. Rule based model: create condition with If and then to get the output

If conditions are called antiscedents and

Topic for the day : How do we come with a rule based models with baysian model

**Overfitting** : removing the edge cases or outlayers we can fit most of the cateogories into a model

How to find the outlayers?

1 R model:

Windy

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True 3 yes 3 no

False 6 yes 2 no

Outlook : (look at the photo)

Sunny 3N, 2Y Rule outcome = N 2 error

Overcast 0N, 4Y

Rainy 2N, 3Y

Temperature:

Cool 1N, 3Y

For each attribute,

For each value of that attribute, make

Generic 1 R model

Cat\_

Num\_

Outcome

End is the last item

If the item has blank