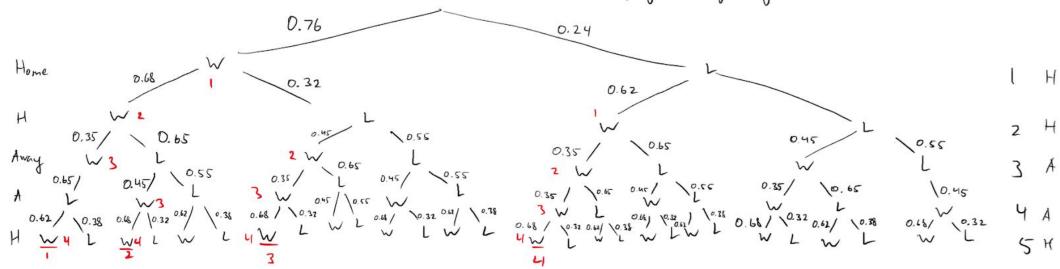
Dhrumil Patel

We construct a tree diagram depicting all possible outcomes of playing exactly 5 games:



Now we consider the cases where The Jays win the series (win 4 games) in exactly 5 games:

P(W|L|W|W) = 0.76 x 0.66 x 0.35 x 0.65 x 0.62 = 0.073

P(W|W|L |W|W) = 0.76 x 0.68 x 0.65 x 0.45 x 0.68 = 0.103 2

P(W|W|W|L|W) = 0.76 x 0.32 x 0.45 x 0.35 x 0.68 = 0.026

P(W|W|W|L) = 0.24 x 0.62 x 0.35 x 0.35 x 0.68 = 0.012

The probability that the Jays win is the union:

P(WISgames) = P(WILIWIWW U WIWILIWIWU WIWIWILIW U WIWIWIWIL)

= 0.073+ 0.103+ 0.026+0.012

- 0.214

= 21.4%

.. The Jays have a 21.4% probability of winning the series in exactly 5 games.

Now should you bet on them winning? homm...

this is conditional probability, so the probability of winning is expressed, for example, as PLWIWILIWIW, where this denotes the Jays winning their last game given they won the previous, which is given they lost the previous,