

# Maximum Likelihood Principle - Ideas

Rain Prediction Model				
	Monday	Tuesday	Wednesday	Thursday
Model A	0.3	0.6	0.7	0.2
Model B	0.2	0.4	0.9	0.6
Model C	0.1	0.6	0.6	0.3
Model D	0.1	0.9	0.9	0.1
Model E	0.1	0.7	0.99	0.01
Model F	0.49	0.51	0.51	0.49
Rained?	N	Y	Y	N

Which Model is better??

Different criteria possible, one of them is maximum likelihood

# MLE - Estimation Example

Let's say we want to estimate the probability of heads for a coin. We collect data, which means we toss the coin a number of times.

Let's say in 100 tosses, we observe 80 heads. What is the best estimate of the probability of heads, as per maximum likelihood method.

