

Data Science Tools and Models

Truth Table Worksheet

p	q	$p \wedge q$
T	T	T
T	F	F
F	T	F
F	F	F

(a) AND Truth Table

p	q	$p \vee q$
T	T	T
T	F	T
F	T	T
F	F	F

(b) OR Truth Table

p	q	$p \rightarrow q$
T	T	T
T	F	F
F	T	T
F	F	T

(c) IMPLICATION
Truth Table

Fill in the truth tables

p	q	r	$p \wedge q$	$q \wedge p \vee r$
F	F	F		
F	F	T		
F	T	F		
F	T	T		
T	F	F		
T	F	T		
T	T	F		
T	T	T		

Day	Rainy	Cloudy	Raining(X) \rightarrow Cloudy(X)
\forall			