A
B
A
B
$P(B =$
$1|A =$
$1) =$
p
$p \in$
$[0, 1]$
$B =$
1
p
B
1
A
1
$P(A =$
$1|B =$
$1) =$
1
B
1
A
1
B
1
A
1
$P(B =$
$1|A =$
$1) >$
$P(B =$
$1|A =$
$0)$
$P(B =$
$0|A =$
$1) <$
$P(B =$
$0|A =$
$0)$
$B =$
1
B
C
$P(A =$
$1|B =$
$b, C =$
$c) =$
$\pi_B *$
$b +$
$\pi_C *$
c
$b, c \in$
$\{1, 0\}$
B
C
π_B
$\pi_C \in$
$[0, 1]$
B
A
C
A
$P(A =$
$1|B =$
$b, C =$
$c)$
0
1
$0 <$
$\pi_B *$
$b +$
$\pi_C *$
$c <$
1
π_B
π_C
B
C
A
$P(A =$
$1|B =$
$b, C =$
$c) =$
$1 -$
$(1 -$
$\pi_B)^b (1 -$
$\pi_C)^c$