Age Education Marital status Occupation Hours-per-week

E -> 45 Bachelors Married -civ-Spouse Exec-managerial 40

P(below50k) = 0.73

P(Age=45|below50k) = 0.024673

P(HPW=40|below50k) = 0.038893

P(Education= Bachelors|below50k) = 12/99 = 0.1212

P(Marital-Status=Married-civ-spouse|below50k) = 37/90 = 0.4111

P(Occupation=Exec-managerial|below50k) = 9/93 = 0.0967

P(below50k|…) = 0.000003375148 / P(…)

P(above50k) =0.27

P(Age=45|above50k) = 0.039093

P(HPW=40|above50k) = 0.027642

P(Education=Bachelors|above50k)=9/46=0.1956

P(Marital-Status=Married-civ-spouse|below50k)=26/37=0.7027

P(Occupation=Exec-managerial|below50k)=9/43=0.2093

P(above50k|…) = 0.000008393445 / P(…)

S = 0.000011768593

Below50k -> 0.28679282221

Above50k -> 0.71320717778