Information gain - attails to selection measure claude sharman on information theory The expected information needed to darify Info (D) = 1 = 1 (Pi) a type in o in gran by Pin he Probability that an arbitrary typh in D belogs to dass Ci ord in estimated by (Ci, 0)/101 info (D) also known as the entropy of D 2 (D) = 3 (D) x 2 (D) Enforcetive gow of definit as the obligation of the new Attended in the digital in the digital in the second of the se required often satisfactions on trallings. Gam (A) = Info(0) - Info(0)

Any (0) = $\frac{3}{19} \times \left(-\frac{2}{5}, \frac{1}{5}, \frac{1}{$ 1 + 1/2 (-1/2) - 2/4/ Gair (age) = Info(D) - Infoque = 0.24 h bits Gair (credit-latis) = 0.079 bits; Gair (studet)=0.15/1 Gair (credit-latis) = 0.048 bits. Oge has he hophet selected for eflitting.