N:26
$$-\frac{12}{20} (652\frac{12}{20} + \frac{8}{20} 692 \frac{8}{20}) = 0'971$$

$$+1 = 0'971$$

$$Color$$

$$0'971 \left(\frac{10}{20} \cdot \frac{1}{10} + \frac{10}{20} - \frac{1}{10} + \frac{1}{10} - \frac{1}{10} + \frac$$

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Consideremos los datos de entrenamiento que se dan a continuación para predecir el sexo de una persona (Sexo es el atributo objetivo). Utilice el algoritmo ID3 para obtener un árbol de decisión. ¿Cuál es la clase predicha para la muestra de prueba (Long, High, Young)?

Person	Hair length	Weight	Age	Class
1	Short	High	Young	Male
2	Long	Low	Young	Female
3	Short	Low	Young	Male
4	Long	Low	Young	Female
5	Short	Low	Young	Female
6	Short	High	Old	Male
7	Long	Low	Old	Female
8	Long	High	Young	Male
9	Long	High	Old	Male

$$H(S^{t}Y) = 0'99107$$

Heir length

 $J_{6} = H - (\frac{4}{9} \cdot H(3^{t}1^{-}) + \frac{5}{9} \cdot H(2^{t}3^{-})) = 0'0917$

Weight

 $J_{6} = H - (\frac{4}{9} \cdot H(9^{t}0^{-}) + \frac{5}{9} \cdot H(1^{t}4^{-})) = 0'0918$
 $J_{6} = 0'0918$

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High		Low	1.0
MALE	Cong	Hairl	Short
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