$T(n) = 3T(\frac{n}{2}) + \frac{n}{\log n} \leq 3T(\frac{n}{2}) + n$

According to Master Theorem,

$a=3,\ b=2,\ f(n)=n$

$\log_b a = \log_2 3$

Case1: $f(n)=n = O(n^{\log_2 3 - \varepsilon})$ where $0 < \varepsilon \leq \log_2 3 - 1$

Therefore $T(n) = O(n^{\log_2 3})$

upper bound is $n^{\log_2 3}$

$T(n) = 3T(\frac{n}{2}) + \frac{n}{\log n} \geq 3T(\frac{n}{2}) + c$, c is a constant >0

According to Master Theorm.

$a=3\ \ b=2\ \ f(n) = c \cdot n^0$

Case 1: $f(n) = c \cdot n^0 = \Omega(n^{\log_2 3 - \varepsilon})$ where $0 < \varepsilon \leq \log_2 3$

Therefore, $T(n) = \Omega(n^{\log_2 3})$

lower bound is $n^{\log_2 3}$

Therefore, $T(n) = \Theta(n^{\log_2 3})$