BHAGYA PANDA
U19CS012

(P7)

(COVID Disease)

System parameters

→ True positive
True negative
False positive
False negative

Forecasting the time based on past epidemic using machine learning

(Density function for time of covid)

~~differ~~ (distribution)

$$M = S(t) + I(t) + R(t)$$

$$\frac{d(S(t))}{dt} = -\beta I(t) S(t)$$

$$\frac{d(R(t))}{dt} = \gamma I(t)$$

$$\frac{dI(t)}{dt} = \beta I(t) S(t) - \gamma I(t)$$

(curve fitting) → (β & γ) ✓ minimizing the least squares)

$$I(t) = \frac{N}{(1 - Ke^{-\beta t})}$$