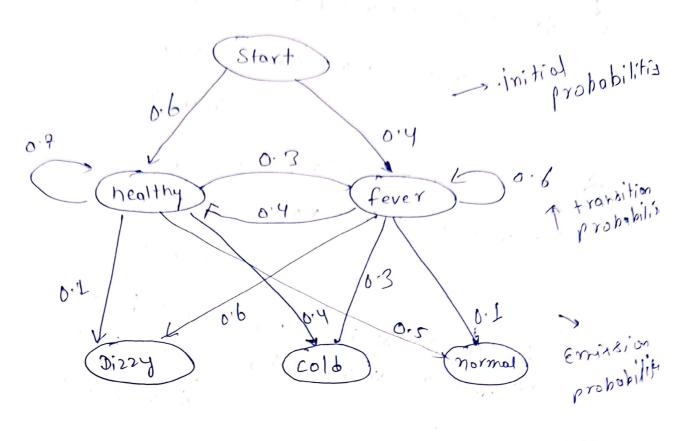
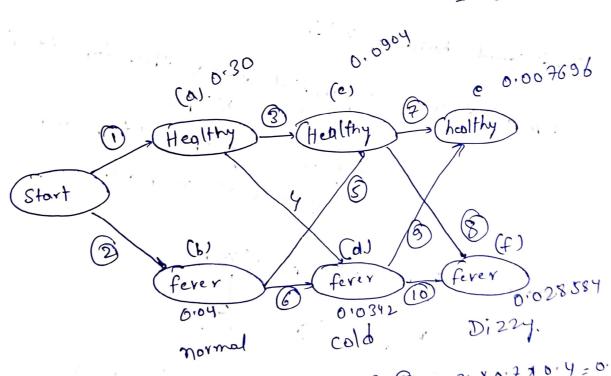


Scanned with OKEN Scanner



Stort - healthy - Normal = 0.6x0.5 = 0.30 Storte Stort - fever - normal = 0.4x0.1 max = 0.04



a b (D =) 0,4 x 0,1 =) 0,04

(c) 0.04. X 0.4 x 0.4 = 0.084 (s) 0.04. X 0.4 x 0.4 = 0.0064

(6) = 
$$10.04 \times 0.6 \times 0.3 = 0.0072$$
 $0.0342$ 

$$9 = 0.0342 \times 0.4 \times 0.1 = 0.00632$$

$$0.007696$$

## Conditional Random fields

uses seguential dontai therefore it is used in NLP.

sequence of character or sequence of words.

Hidden 
$$(y_1)$$
  $(y_2)$   $(y_3)$ 

$$(x_1)$$
  $(x_3)$   $(x_3)$ 

$$(y_1)$$
  $(y_1, y_1)$   $(y_1, y_2)$   $(y_1, y_2)$ 

$$(y_1, y_2)$$
  $(y_2)$ 

$$(y_1, y_2)$$
  $(y_2)$ 

$$(y_1, y_2)$$
  $(y_2)$ 

$$(y_1, y_2)$$
  $(y_2)$ 

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_3)$$

$$(y_1, y_2)$$

$$(y_2)$$

$$(y_3)$$

$$(y_3)$$

$$(y_4)$$

HWW

## henerative model

- learns the underlying distribution of data.

How donta is generated.

Example Maire Bays

joint propabilities diptribution. haussian mixture model

HMM

variational Autoenwolen

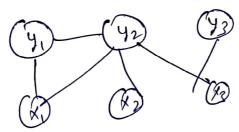
BAN - Generative Adresation network

Limitation i) static transmission & ¿mission

2) Limited Dependences.

## Conditional Random field

CRF's are undirected so 9 should have been calling Hese connection instead of orrows



Discriminative model

conditional probabilitity.

Example - logistic Regression directly teams the boundary SYM, OLDA

