New - Signaturnally

## predicted

	F	131	1		X	1	i r
True	Н	1	35		3 balal	N N	
	P		1	L	Up	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	S			2	4	21	1
	V	2		3	***	24	27
		G		H	P	S	

F-134

V-28

2.679

0.791

3.525

TP=131

FN = 1+1=2

Fp = 1 + 2 = 3

TN = 35+3+4+1+40+2+4+1+3+21+27 -141

precision =  $\frac{TP}{TP+FP} = \frac{131}{131+3} = 97.761 \%$  0.97761

 $\begin{aligned} \text{Recall} &= \frac{TP}{Tp + FN} = \frac{131}{131 + 2} = 98.4967. \quad 0.98496 \\ F1 &= 2 \frac{P\text{recision} \cdot \text{recall}}{P\text{recision} + \text{recall}} = \frac{2 \cdot 0.97761 + 0.98496}{0.97761 + 0.98496} = 492067. \end{aligned}$ 

## Htr3a

$$recall = \frac{35}{35+8} = 0.8139$$

$$Fecall = \frac{35}{35+8} = 0.8139$$

$$F1 = \frac{0.8333 \times 0.8139}{0.933 + 0.8139} = 0.8234$$

SST

$$Tp = 21$$
 $FN = 2+4+1=7$ 
 $Fp = 1+4=5$ 
 $FN = 134+1+1435+3+1+440+2+3+27=244$ 
 $P(ecision = \frac{21}{24+5} = 0.8076$ 
 $FE call = \frac{21}{24+7} = 0.75$ 
 $FA = 2 \times 0.8076 \times 0.76$ 
 $FA = 2 \times 0.8076 \times 0.803$ 
 $FA = 2 \times 0.964 \times 0.803$ 
 $FA = 2 \times 0.8076 \times 0.803$ 

class	ТР	FP	FN	TN	Prec	(089	FA
F	131	3	2	141	0.977	0.984	0.981
H	35	7	8	224	0.833	80.813	0.823
P	40	7	1	229	0.851	0.975	0-908
S	21	5	7	244	0.807	0.75	0.777
V	27	.1	5	244	0.964	0.843	0.3992
	254	23	23	1085	4.432	4.365	4.388

Micro

$$Precision = \frac{131+35+40+21+27}{131+35+40+21+27+23} = 0.916$$

$$f1 = 2 \times \frac{0.916^2}{2 \times 0.916} = 0.916$$

Precision = 
$$\frac{u.u32}{5}$$
 = 0.8865  
recall =  $\frac{u.365}{5}$  = 0.873  
 $f_1 = \frac{u.388}{5}$  = 0.8776