Super Agi Assignment

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EntryNo- 2021 AFG 208

[IITDelhi]

In Cojistic Regression by potnessis is given as

how =

1 + ewix

Let $y = \omega^{T}x = \omega_{0} + \omega_{1}^{T}x_{1} + \omega_{2}^{T}x_{2} + \dots + \omega_{n}^{T}x_{n}$ I'then

I'then $y = \omega_{1}\omega_{0} + \omega_{n}\omega_{1}^{T}x_{1} + \omega_{n}^{T}x_{2} + \dots + \omega_{n}^{T}\omega_{n}^{T}x_{n}$ $y = \omega_{1}\omega_{0} + \omega_{n}\omega_{1}^{T}x_{1} + \omega_{n}^{T}\omega_{2}^{T}x_{2} + \dots + \omega_{n}^{T}\omega_{n}^{T}x_{n}$ But $x_{n} = x_{n}\omega_{1}$ (duplicated feature) so $y = \omega_{1}\omega_{0} + \omega_{1}\omega_{1}^{T}x_{1} + \dots + (\omega_{n}^{T}\omega_{n}^{T}\omega_{n}^{T})x_{n}$ $y = \omega_{1}\omega_{0}^{T}x_{1} + \dots + (\omega_{n}^{T}\omega_{n}^{T}\omega_{n}^{T}\omega_{n}^{T})x_{n}^{T}x_{n}^{T$

Both B and c are worse than A with over 954 confidence.

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Recison: CTR is key indicator of the effectiveness of an

emoil compain. The higher the CTR, the more

the successful the compain is.

The 3 approches to generate additional training data

for the V2 Classifier and directs their potential impact

on the accuracy of the classifier

on the accuracy of the classifier

- 1. this approach aim to find examples that are challenging for the VI classifier, as they are close to the decision boundry. However these examples might be ambiguous boundry. However these examples might be ambiguous and not naccersarity sepresent clear coses of information and not naccersarity sepresent clear coses of information or entertainment. It could introduce horse to into
 - 2. Hes approchimative randomly selected lower labeled

 Bloodes from the love news source it provide

 Oliverse examples from different sources but the

 randomness might not gurently agraed

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 represention of challerging costs for closs/pleation

 representation on the quality of the organal

 labelling.

3. lotel Inillion etories and steer Select CB and wrong!
This approach lobels a large datset and select lover examples where the VI clotsifier is both wrong and farthest away from the decition boundry. this farthest away from the decition boundry. This method focuses on correct mistakes made by VI method focuses on correct mistakes made by VI clossifier and identifies examples that are confidently his clossifier.

Prince

(1-P) raid

(a) L'Heljhrod
$$L = {}^{n}_{CK} {}^{p}_{K} (1-P)^{m-k} {}^{n}_{CK} {}^{p}_{K} (n-k) (1-P)^{m-k-1} = 0$$

$$\frac{\partial L}{\partial P} = {}^{n}_{CK} {}^{p}_{K} {}^{p}_{K} (1-P)^{m-k} {}^{n}_{CK} {}^{p}_{K} (n-k) (1-P)^{m-k-1} = 0$$

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(b) given prior
$$p(b) = 1$$

otherwise

bk (1-P)

$$\Rightarrow \text{ Likelihood } P(K,n) = n_{C_K} p_K (1-P)^{n-K}$$

$$\Rightarrow P(X=K) \propto P(X=K) P(P)$$

$$\Rightarrow P(P) \Rightarrow P(P) \propto P(P)^{n-K} P(P)$$

$$\Rightarrow P(P) \Rightarrow P(P) \sim P(P)$$

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$$\Rightarrow P(P) \Rightarrow P(P) \Rightarrow$$

(C) max
$$(P(b|n_i k))$$

$$P(b|n_i k) = n(k p^k (1-p)^{n-k})$$

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$$max^i at p = \frac{k}{n}$$

$$p(k p^k (1-p)^{n-k})$$

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