Predicting Web 2.0 Thread Updates Progress Update

Shawn Tan

Table of Contents

Motivation

- Many sites with thread-based discussion features
- Users post product reviews, feedback

Obtaining such up-to-date information may be vital to companies.

Table of Contents

avsforum.com

User-centric threads

6/26

Questions

What's wrong with my LG LCD?

🔳 Start a New Thread

9/1/12 at 2:20pm THREAD STARTER 💬	post #1

PlasmaPZ80U ▾

I noticed this issue today when I powered on my 2011 LG LCD. The set has about 2,100 hrs on and was working fine yesterday. The issue is that the picture looks blurry and low res with distorted text and jagged vertical and diagonal lines in what should be solid sharp and clear text, lines, pictures, and other shapes. The issue occurs with all sources/inputs and on the TV menu itself. Is this a panel issue or a main board issue or something else? Anything I can try to resolve this issue? I reset the picture settings and tried various pic modes, but to no avail.

⋮

9/1/12 at 2:46pm

walford ▾
AVS Addicted Member

Is it a 3D model?
Did you try unplugging it for about 20 minutes in order to make sure it had a complete reboot w

Mentions

10/1/10 at 6:12pm

rdjam:

Wouldn't a 1.4a AVR with 2 simultaneous HDMI outpu

I have an Yamaha RX-A3000 on order (due next Thu

TIA

Elkhunter ▾
Senior Member
● offline
315 Posts. Joined 7/2008

10/1/10 at 6:24pm   THREAD STARTER 💬

Quote:

Originally Posted by **Elkhunter** 📩

rdjam:

Wouldn't a 1.4a AVR with 2 simultaneous HDMI ou

I have an Yamaha RX-A3000 on order (due next

TIA

That should be do-able. Don't have one yet but can't

However, I was planning to have one output for my
projectors.

rdjam ▾
New toy The Darblet!
AVS Gold Club
● offline
9,716 Posts. Joined 3/2005
Location: Miami, FL

Table of Contents

Events
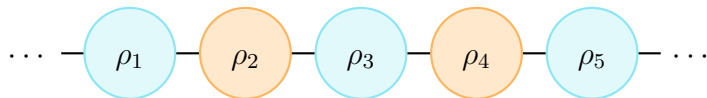
T-score
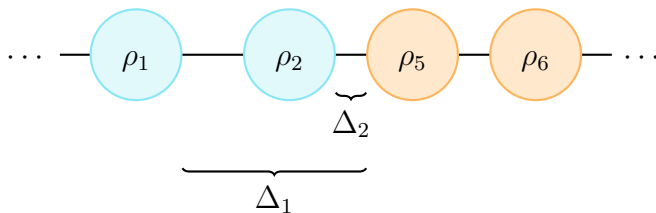
$$T = \frac{1}{N} \sum_{i \in posts} \Delta_i$$

Pr_{error}

1. Pr_{fa} More visits than posts, false alarm.
2. Pr_{miss} More posts than visits, miss.

Weighted average use as error metric.

$$Pr_{error} = \alpha Pr_{fa} + (1 - \alpha)Pr_{miss}$$

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Table of Contents

Baseline

Description Take the average Δ_t from training set, and use
that as the revisit time.

T-score

Visit/Post Ratio

Windowing

Use features from windows of posts. Number of posts in window given by w.
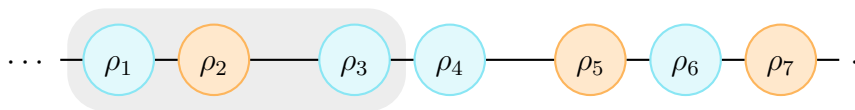
Windowing

Use features from windows of posts. Number of posts in window given by w.
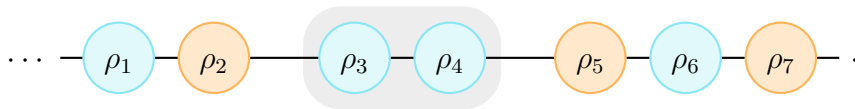
Windowing

Use features from windows of posts. Number of posts in window given by *w*.
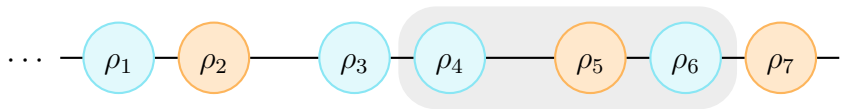
Window-based average

Description Take the average Δ_t from ~~training set~~ previous
window, and use that as the revisit time.

T-score

Visit/Post Ratio

Support Vector Regression

Description Using only the window's Δ_t as features

    T-score

Visit/Post Ratio

Content-based features

Count of individual tokens used:

1. Text is stemmed, stopwords removed
2. Occurences of usernames are replaced with '#USER#'
3. Occurences of tokens with mixtures of alphabets and numbers are replaced with '#MODEL#'
4. Univariate regression tests used to select features

Time-context

1. Hour of the day
2. Day of the week

Represented as bit vectors

Content features only

T-score
Visit/Post Ratio

Content features $+\Delta_{t}+$ time-context

T-score

Visit/Post Ratio

Table of Contents

Discounted Sum

$$\mathbf{X}_t = \mathbf{v}_t + \gamma \mathbf{X}_{t-1}$$
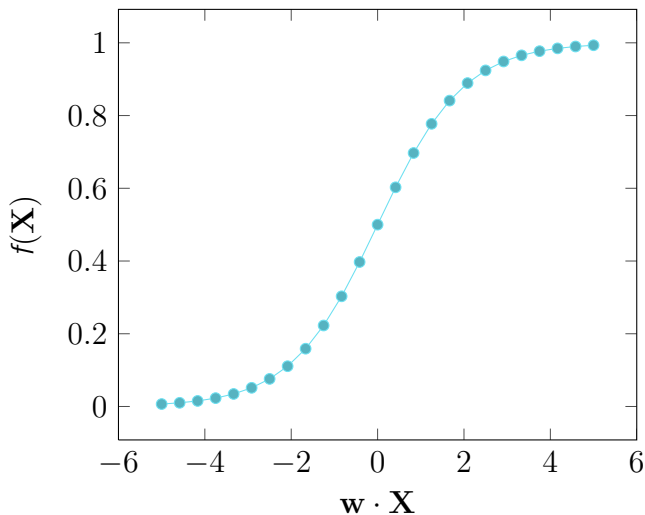
Stochastic Gradient Descent

Function to be fitted:

$$f(\mathbf{X}) = \frac{\Lambda - \lambda}{1 + e^{\mathbf{w} \cdot \mathbf{X}}} + \lambda$$

Update rule:

$$\Delta \mathbf{w}_i = \eta \underbrace{\left(\widehat{\Delta_t} - \Delta_t \right)}_{\text{error term}} \underbrace{\left(f(\mathbf{X})(1 - f(\mathbf{X})) \right)}_{\text{gradient}} \mathbf{X}_i$$

Scaled Sigmoid Function

SGD results

Is there a name for this?