

A) Arc-x4

Given: Training dataset $\{\langle x_1, y_1 \rangle, \dots, \langle x_n, y_n \rangle\}$

Maximum # of rounds, R

Expert (weak) learning algorithm

Initialize weights and mistakes:

$$w_i(i) = 1/n \quad \forall i \quad m_i(i) = 0 \quad \forall i$$

For $r=1$ to R :

Build new expert h_r using weighted dataset.

Compute weighted error of current expert:

$$e_r(i) = \begin{cases} 1 & \text{if } h_r(x_i) \neq y_i \\ 0 & \text{else} \end{cases} \quad \forall i$$

$$\epsilon_r = \sum_i w_r(i) e_r(i)$$

If weighted error is greater than $1/2$ then:

Reset weights, delete expert, loop

Update exemplar mistakes, weights:

$$m_i(i) = m_{i-1}(i) + e_r(i) \quad \forall i$$

$$w_{i+1}(i) = 1 + m_i(i)^4 \quad \forall i$$

Normalize exemplar weights:

$$w_{i+1}(i) = w_{i+1}(i) / \sum_i w_{i+1}(i) \quad \forall i$$

End for loop.

Ensemble output:

$$h(x) = \arg \max_{y \in \mathcal{Y}} \left\{ \sum_{i \in \mathcal{I}} w_i : h_i(x) = y \right\}$$

B) POCA (with Arc-x4-like weighting)

Given: Expert (weak) learning algorithm

of experts, R ; Decay parameter, d

Build experts h_1, \dots, h_R

Initialize weighted error approximations:

$$\epsilon(r) = q(r) = 0.5 \quad \forall r \quad s(r) = 1 \quad \forall r$$

While there are training exemplars $\langle x, y \rangle$:

Compute immediate expert errors on $\langle x, y \rangle$:

$$e_r = \begin{cases} 1 & \text{if } h_r(x) \neq y \\ 0 & \text{else} \end{cases} \quad \forall r$$

Compute expert weights for current exemplar:

$$m(r) = \sum_{\{i: e_r(i) < 0.5\}} e_r(i) \quad \forall r$$

$$w_i(r) = 1 + m(r)^4 \quad \forall r$$

$$z(r) = \max(w_{i-2000}(r), \dots, w_i(r))$$

Train experts on $\langle x, y \rangle$ using $w_i(r)/z(r)$

Update norm. weighted error estimates of experts

$$q(r) = q(r)(1-d) + w_r(r)e_r(r)d \quad \forall r$$

$$s(r) = s(r)(1-d) + w_r(r)d \quad \forall r$$

$$\epsilon(r) = q(r) / s(r) \quad \forall r$$

End while loop.

Ensemble output:

$$h(x) = \arg \max_{y \in \mathcal{Y}} \left\{ \sum_{i \in \mathcal{I}} w_i : h_i(x) = y \right\}$$

Arallel P Doc Ic

M Lipman



Arallel P Doc Ic:

Whispering the Strategies of Language: An Emotional Journey through **Arallel P Doc Ic**

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