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inf_weighted_prob
function weighted_avg_prob = inf_weighted_prob(prob_vector)

[temp N] = size(prob_vector);

for i = 1 : N

inf_vector(i) = -1*spec_log(prob_vector(i));

endfor

avg_inf = mean(inf_vector);
var_vector = sqrt(((inf_vector - avg_inf).^2)) + 1;
s_vector = var_vector; %this is here to allow for adjustments to the weights where
appropriate
T = sum(s_vector);

weighted_avg_prob = (1/T)*(s_vector*prob_vector');

endfunction

```