Subject: Re: slow processing of my k-nearest neighour code
Posted by btt on Mon, 14 Aug 2006 14:11:30 GMT
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humphreymurray@gmail.com wrote:

>>   ; Calculate the squared distance for each attribute.
>>   squared = make_array(num_training_elements, num_attributes)
>>   for attrib = 0, num_attributes-1 do begin
>>   squared[*,attrib] = (testing_data[i, attrib] -
>> training_data[*,attrib])^2
>>   endfor
>>

Hi,

You might try replacing the above for inner-loop with the following

 squared = (testing_data - training_data)^2

Since IDL is array saavy it will perform the operation element by
element for you quite quickly (as well as make the "squared" array for you).

You might be able to eliminate the outer-loop, too, but I am less sure
of that. Take a peek at the for-loop bible at

http://www.dfanning.com/tips/forloops.html

Good luck,
Ben