

```
function [cluster_vector diff] = find_delta_cluster(input_vector, dataset, delta, N)

num_columns = size(dataset,1); %the number of columns in the cluster matrix
cluster_vector = zeros(1,num_columns);

diff = sum((input_vector(1:N) .- dataset(:,1:N)).^2,2); %ignores classifiers

matched_rows = find(diff <= delta^2);

cluster_vector(1,matched_rows) = 1;

endfunction
```