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pkg load statistics
pkg load communications
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%FORMAT WINE-----

N = size(data_matrix,2) - 1;

temp = data_matrix(:,1);
data_matrix(:,1) = data_matrix(:,14);
data_matrix(:,14) = temp;

%FORMAT PARK-----

data_matrix(1,:) = [ ];
data_matrix(:,1) = [ ];

clear temp

temp = data_matrix(:,17);

data_matrix(:, 17) = [ ];

data_matrix(:,23) = temp;

N = size(data_matrix,2) - 1;

%-----

filename = "C:/Users/erdosfan/Desktop/Image_Research/External Training
Sets/iris-data.txt";
data_matrix = csvread(filename);
num_rows = size(data_matrix,1);

N = size(data_matrix,2) - 1;

[final_data_categories_array final_delta] =
optimize_categories_fast_N(data_matrix,N);

accuracy = test_matrix_cat_accuracy(final_data_categories_array, num_rows, N);

```