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# Data Preprocessing for Both Subjects and Sessions

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subjects = {'subject_1', 'subject_2'};
sessions = {'training_1', 'training_2'};
fs = 256; % Sampling rate in Hz

% Define frequencies of interest and harmonics
frequencies_of_interest = [9, 10, 12, 15]; % Frequencies corresponding to
the task
frequencies_of_interest_reversed = flip(frequencies_of_interest); % Reversed
for FBCCA analysis
harmonics = 3; % Number of harmonics to consider

for subj = 1:length(subjects)
    for sess = 1:length(sessions)
        % Load session data
        data = load([subjects{subj} '_fvep_led_' sessions{sess} '.mat']);

        % Load class information from 'classInfo_4_5.m' file
        class_labels = [
            1 0 0 0;
            0 1 0 0;
            0 0 1 0;
            0 0 0 1;
            1 0 0 0;
            0 1 0 0;
            0 0 1 0;
            0 0 0 1;
            1 0 0 0;
            0 1 0 0;
            0 0 1 0;
            0 0 0 1;
            1 0 0 0;
            0 1 0 0;
            0 0 1 0;
            0 0 0 1;
            1 0 0 0;
            0 1 0 0;
            0 0 1 0;
            0 0 0 1;
        ];

        % Convert one-hot encoded labels to frequencies
        ground_truth_frequencies = [9, 10, 12, 15]; % Define this to match
the order of the one-hot encoding
        ground_truth_frequencies = ground_truth_frequencies(class_labels *
[1; 2; 3; 4]);

        % Create LDA ground truth
        lda_ground_truth = zeros(length(ground_truth_frequencies), 1);
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for i = 1:length(ground_truth_frequencies)
    if ismember(ground_truth_frequencies(i), [9, 10])
        lda_ground_truth(i) = 0; % Low-frequency group
    elseif ismember(ground_truth_frequencies(i), [12, 15])
        lda_ground_truth(i) = 3; % High-frequency group
    end
end

% Extract data
sample_time = data.y(1, 1001:end); % Time samples from 1001st onward
EEG_data = data.y(2:9, 1001:end); % EEG data from CH2-9, starting
from 1001st sample
trigger_info = data.y(10, 1001:end); % Trigger information
lda_output = data.y(11, 1001:end); % LDA output

% Bandpass and Notch filter design
[b_bandpass, a_bandpass] = butter(4, [5 30]/(fs/2), 'bandpass'); %
4th-order Butterworth
[b_notch, a_notch] = butter(2, [49 51]/(fs/2), 'stop'); % 2nd-order
Notch filter

% Filter EEG data
EEG_data_filtered = zeros(size(EEG_data));
for ch = 1:8
    EEG_data_bandpassed = filtfilt(b_bandpass, a_bandpass,
EEG_data(ch, :));
    EEG_data_filtered(ch, :) = filtfilt(b_notch, a_notch,
EEG_data_bandpassed);
end

% Find transitions in trigger_info
onsets = find(diff(trigger_info) == 1) + 1;

% Initialize epochs
epochs = {};
window_size = fs * 3; % 3-second windows

% Extract the epochs around the stimulation onsets
for i = 1:length(onsets)
    if (onsets(i) + window_size - 1) <= length(sample_time)
        epoch = EEG_data_filtered(:, onsets(i):onsets(i) +
window_size - 1);
        epochs{i} = epoch; % Store the epoch
    end
end

% Ensure that lda_output matches the number of epochs
num_epochs = length(epochs);
assert(num_epochs == length(lda_ground_truth))

% Extract LDA output for each epoch based on trigger transitions
predicted_labels_lda = zeros(num_epochs, 1); % Initialize the
predicted LDA labels

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    for i = 1:num_epochs
        epoch_start = onsets(i); % Get the start of the epoch based on
trigger_info
        epoch_end = min(epoch_start + window_size - 1,
length(lda_output)); % Ensure we don't exceed the LDA output length

        % Extract the LDA output for the duration of the epoch
        epoch_lda_output = lda_output(epoch_start:epoch_end);

        % Use non-zero values of LDA output to find relevant predictions
        non_zero_lda_output = epoch_lda_output(epoch_lda_output ~= 0);

        % If there are non-zero values, take the most frequent (mode) or
the last value
        if ~isempty(non_zero_lda_output)
            predicted_labels_lda(i) = mode(non_zero_lda_output); % Use
mode for stable predictions
        else
            predicted_labels_lda(i) = 0; % Fallback to 0 if no non-zero
LDA values are found
        end
    end

    num_epochs = length(epochs);
    assert(num_epochs == length(lda_ground_truth)) % Ensure match
between epochs and labels

    % Perform CCA, FBCCA, and LDA Analysis for each epoch
    acc_cca = zeros(num_epochs, 1);
    acc_fbcca = zeros(num_epochs, 1);
    acc_lda = zeros(num_epochs, 1);
    predicted_labels_cca = zeros(num_epochs, 1);
    predicted_labels_fbcca = zeros(num_epochs, 1);

    if isempty(gcp('nocreate'))
        parpool; % Open parallel pool if not already opened
    end

    parfor i = 1:num_epochs
        epoch = epochs{i};

        % Apply PCA
        [coeff, score, ~] = pca(epoch');
        reduced_epoch = score(:, 1:min(size(score, 2), 4));

        % --- CCA Analysis ---
        max_corr = zeros(1, length(frequencies_of_interest));
        for f_idx = 1:length(frequencies_of_interest)
            ref_signals =
create_reference_signals(frequencies_of_interest_reversed(f_idx), harmonics,
size(reduced_epoch, 1), fs);
            [~, ~, r] = canoncorr(reduced_epoch, ref_signals');
            max_corr(f_idx) = max(r);
        end
    end

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        [~, predicted_freq_idx_cca] = max(max_corr);
        predicted_labels_cca(i) =
frequencies_of_interest(predicted_freq_idx_cca);

        acc_cca(i) = (predicted_labels_cca(i) ==
ground_truth_frequencies(i));

        % --- FBCCA Analysis ---
        num_bands = 7;
        fb_corr = zeros(1, length(frequencies_of_interest));
        for band_idx = 1:num_bands
            f_lower = max(0, frequencies_of_interest - 2 * band_idx);
            f_upper = min(fs/2, frequencies_of_interest + 2 * band_idx);

            for f_idx = 1:length(frequencies_of_interest)
                norm_f_lower = f_lower(f_idx) / (fs/2);
                norm_f_upper = f_upper(f_idx) / (fs/2);

                if norm_f_lower <= 0 || norm_f_upper >= 1 || norm_f_lower
>= norm_f_upper
                    continue;
                end

                [b_fb, a_fb] = butter(1, [norm_f_lower norm_f_upper],
'bandpass');

                epoch_fb = filtfilt(b_fb, a_fb, epoch);

                ref_signals =
create_reference_signals(frequencies_of_interest_reversed(f_idx), harmonics,
size(epoch_fb, 2), fs);
                [~, ~, r_fb] = canoncorr(epoch_fb', ref_signals');
                fb_corr(f_idx) = max(r_fb) + fb_corr(f_idx);
            end
        end
        [~, predicted_freq_idx_fbcca] = max(fb_corr);
        predicted_labels_fbcca(i) =
frequencies_of_interest(predicted_freq_idx_fbcca);
        acc_fbcca(i) = (predicted_labels_fbcca(i) ==
ground_truth_frequencies(i));

        acc_lda(i) = (predicted_labels_lda(i) == lda_ground_truth(i));
    end

    if subj == 2 && sess == 2
        delete(gcp); % Shutdown parallel pool
    end

    % Calculate and display average accuracies
    avg_cca_accuracy = mean(acc_cca) * 100;
    avg_fbcca_accuracy = mean(acc_fbcca) * 100;
    avg_lda_accuracy = mean(acc_lda) * 100;
    disp(['CCA Accuracy for ' subjects{subj} ', ' sessions{sess} ': ',
num2str(avg_cca_accuracy), '%']);
    disp(['FBCCA Accuracy for ' subjects{subj} ', ' sessions{sess} ': ',

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num2str(avg_fbcca_accuracy), '%']);
    disp(['LDA Accuracy for ' subjects{subj} ', ' sessions{sess} ': ',
num2str(avg_lda_accuracy), '%']);

    % Calculate and display average accuracies
    avg_cca_accuracy = mean(acc_cca) * 100;
    avg_fbcca_accuracy = mean(acc_fbcca) * 100;
    avg_lda_accuracy = mean(acc_lda) * 100;
    disp(['CCA Accuracy for ' subjects{subj} ', ' sessions{sess} ': ',
num2str(avg_cca_accuracy), '%']);
    disp(['FBCCA Accuracy for ' subjects{subj} ', ' sessions{sess} ': ',
num2str(avg_fbcca_accuracy), '%']);
    disp(['LDA Accuracy for ' subjects{subj} ', ' sessions{sess} ': ',
num2str(avg_lda_accuracy), '%']);

    % Replace underscores with spaces and capitalize first letters
    subject_title = strrep(subjects{subj}, '_', ' '); % Replace
underscore with space
    subject_title = ['Subject ' subject_title(end)]; % Modify to "Subject
1" format
    session_title = strrep(sessions{sess}, '_', ' '); % Replace
underscore with space
    session_title = ['Training ' session_title(end)]; % Modify to
"Training 1" format

    % Plot the accuracies
    accuracies = [avg_cca_accuracy, avg_fbcca_accuracy, avg_lda_accuracy];
    figure;
    bar(accuracies);
    title(['Accuracies for ' subject_title ', ' session_title]); % Set
the title using the modified strings
    ylabel('Accuracy (%)');
    xticklabels({'CCA', 'FBCCA', 'LDA'});
    ylim([0, 100]);
    set(gca, 'FontSize', 12);
end
end

% --- Helper Function to Create Reference Signals ---
function ref_signals = create_reference_signals(frequency, harmonics,
num_samples, fs)
    % frequency: target frequency in Hz
    % harmonics: number of harmonics to include
    % num_samples: number of time points
    % fs: sampling frequency (in Hz)

    t = (0:num_samples-1) / fs; % Time vector
    ref_signals = []; % Initialize the reference signal matrix

    % Create sine and cosine signals for each harmonic
    for h = 1:harmonics
        ref_signals = [ref_signals; sin(2 * pi * h * frequency * t); cos(2 *
pi * h * frequency * t)];

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Starting parallel pool (parpool) using the 'Processes' profile ...
Connected to parallel pool with 8 workers.
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> In <a href="matlab:matlab.lang.internal.introspective.errorDocCallback('canoncorr', '/Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m', 88)" style="font-weight:bold">canoncorr</a> (<a href="matlab: opentoline('/Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m',88,0)">line 88</a>)
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CCA Accuracy for subject_1, training_1: 95%
FBCCA Accuracy for subject_1, training_1: 80%
LDA Accuracy for subject 1, training 1: 65%

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CCA Accuracy for subject\_1, training\_2: 100%

FBCCA Accuracy for subject\_1, training\_2: 65%

LDA Accuracy for subject\_1, training\_2: 70%

CCA Accuracy for subject\_1, training\_2: 100%

FBCCA Accuracy for subject\_1, training\_2: 65%

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LDA Accuracy for subject\_1, training\_2: 70%

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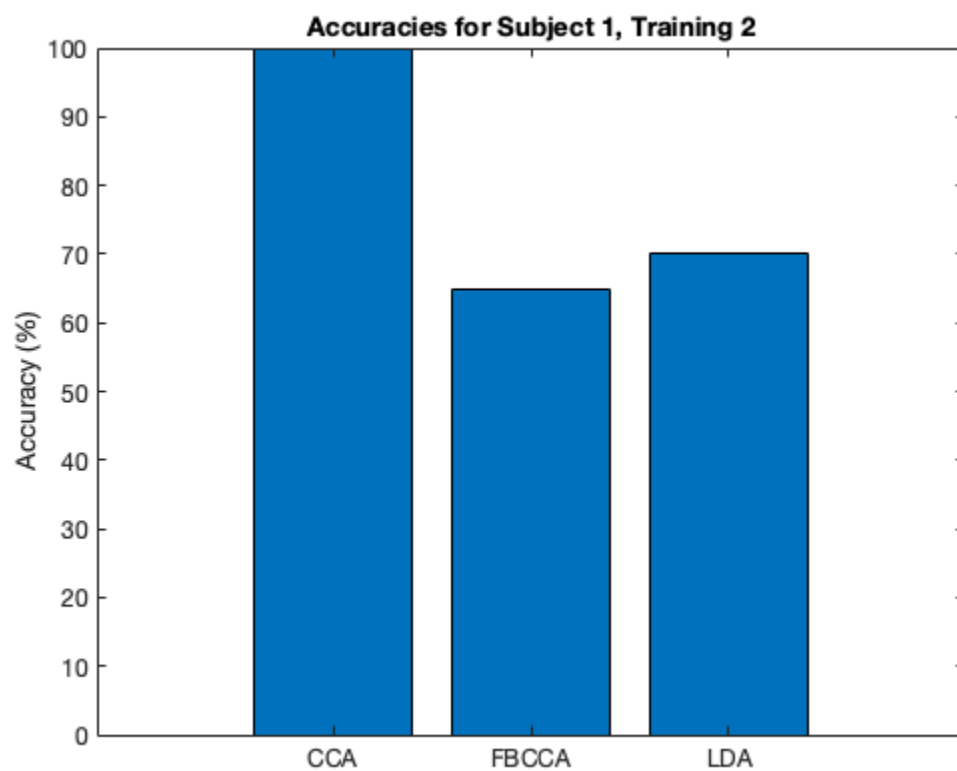
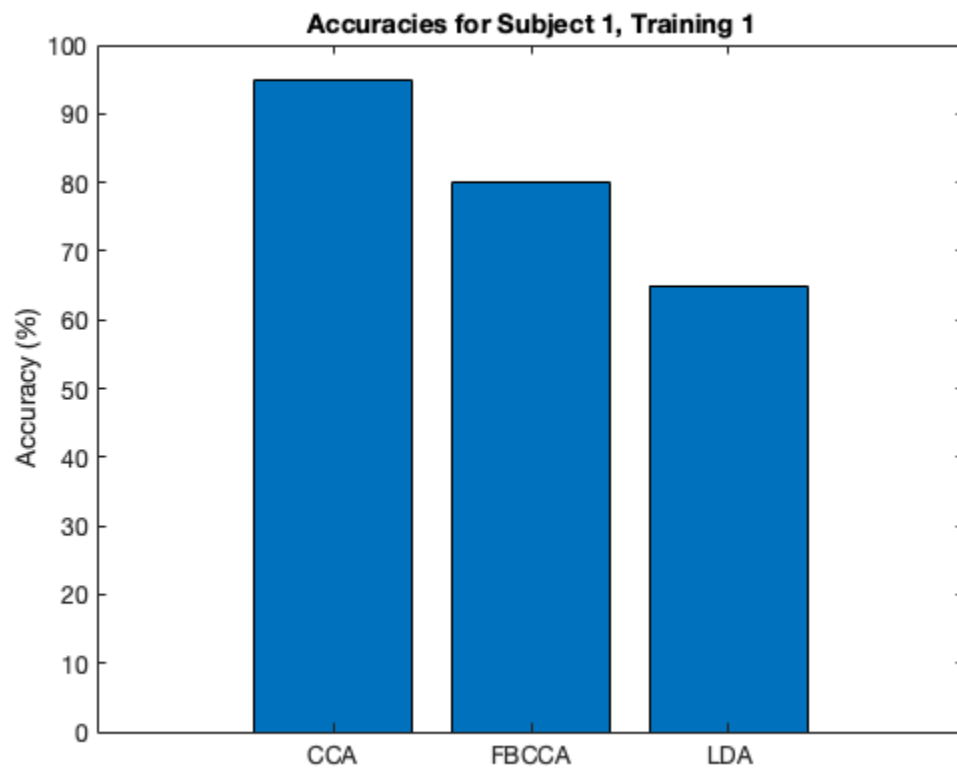


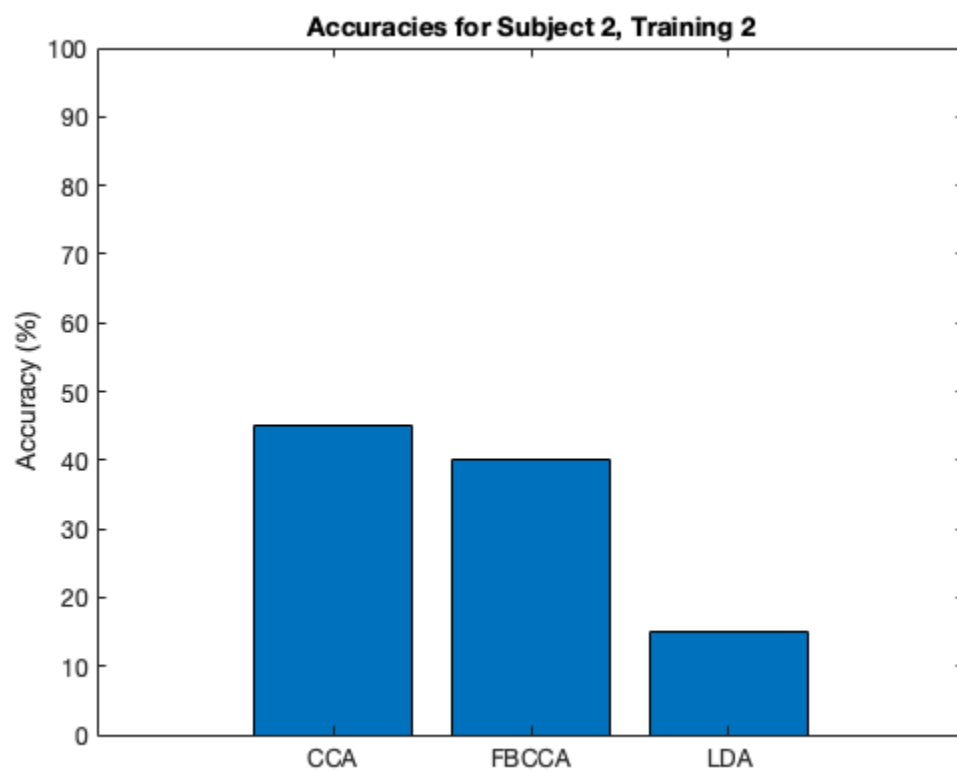
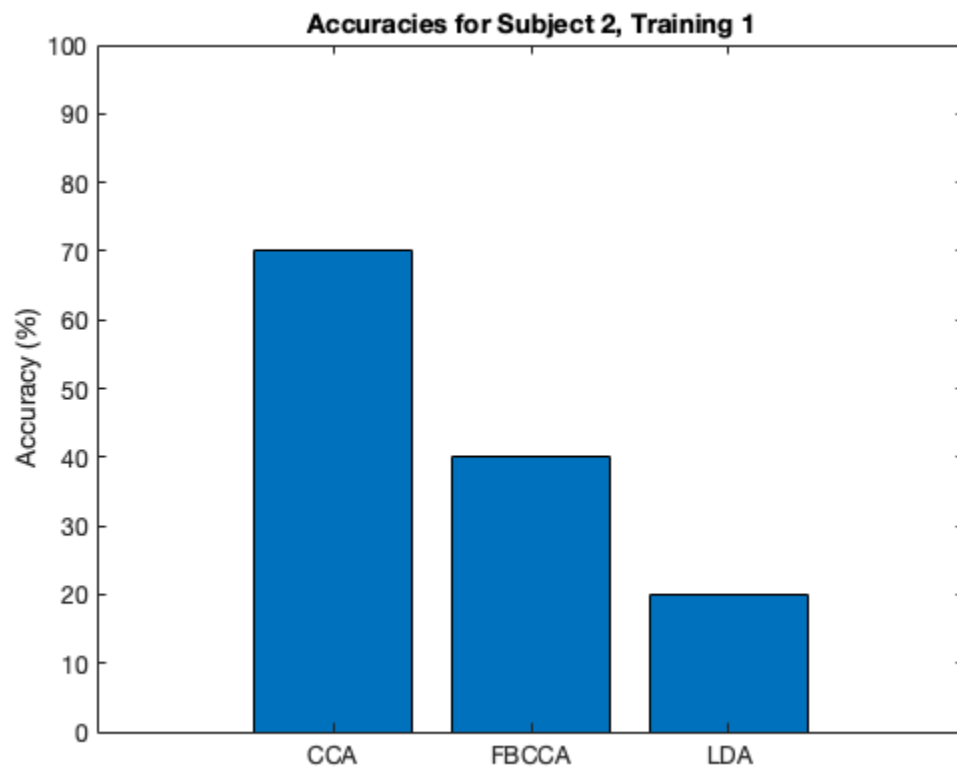




```

style="font-weight:bold">canoncorr</a> (<a href="matlab: opentoline('/
Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m',88,0)">line
88</a>)
Warning: X is not full rank.
> In <a
href="matlab:matlab.lang.internal.introspective.errorDocCallback('canoncorr',
'/Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m', 88)"
style="font-weight:bold">canoncorr</a> (<a href="matlab: opentoline('/
Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m',88,0)">line
88</a>)
Warning: X is not full rank.
> In <a
href="matlab:matlab.lang.internal.introspective.errorDocCallback('canoncorr',
'/Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m', 88)"
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Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m',88,0)">line
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> In <a
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> In <a
href="matlab:matlab.lang.internal.introspective.errorDocCallback('canoncorr',
'/Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m', 88)"
style="font-weight:bold">canoncorr</a> (<a href="matlab: opentoline('/
Applications/MATLAB_R2024a.app/toolbox/stats/stats/canoncorr.m',88,0)">line
88</a>)
Parallel pool using the 'Processes' profile is shutting down.
CCA Accuracy for subject_2, training_2: 45%
FBCCA Accuracy for subject_2, training_2: 40%
LDA Accuracy for subject_2, training_2: 15%
CCA Accuracy for subject_2, training_2: 45%
FBCCA Accuracy for subject_2, training_2: 40%
LDA Accuracy for subject_2, training_2: 15%
```





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