Machine Leaning - Assignment 2

For this assignment, I will also write a code which would run phonme1 and 2 together in a code. Just for time saving.

yellow part is the key points command or will be used in the future task!!!!

Task 1

Task 2

```
% Simple script to do EM for a mixture of Gaussians.
% -----
     based on code from Rasmu2ssen and Ghahramani
% (http://www.gatsby.ucl.ac.uk/~zoubin/course02/)
% Initialise parameters
x1 = load data(1);
x2 = load data(2);
  x1=x1(1:130,:); %training data for phonme 1
x2=x2(1:130,:); %training data for phonme 2
[n D] = size(x1);
                                                                                           % number of observations (n) and
dimension (D)
k = 6;
                                                                                        % number of components
p1 = [ones(1,k)/k]';
                                                                                        % mixing proportions
                                                                                           % means picked rqandomly from data
mu1 = x1(ceil(n.*rand(1,k)),:)';
s1 = zeros(D, D, k);
                                                                                       % covariance matrices
                                                                                        % number of iterations
niter=100;
% initialize covariances
for i=1:k
    s1(:,:,i) = cov(x1)./k; % initially set to fraction of data
covariance
end
set(gcf,'Renderer','zbuffer');
clear Z;
trv
     % run EM for niter iterations
     for t=1:niter,
          fprintf('t=%d\r',t);
          % Do the E-step:
          for i=1:k
               Z(:,i) = p1(i)*det(s1(:,:,i))^(-0.5)*exp(-0.5*sum((x1'-
repmat(mu1(:,i),1,n))'*inv(s1(:,:,i)).*(x1'-repmat(mu1(:,i),1,n))',2));
          Z = Z./repmat(sum(Z,2),1,k);
          % Do the M-step:
          for i=1:k
              mu1(:,i) = (x1'*Z(:,i))./sum(Z(:,i));
               % We will fit Gaussians with diagonal covariances:
              s1(:,:,i) = diag((x1'-repmat(mu1(:,i),1,n)).^2*Z(:,i)./sum(Z(:,i)));
               \ensuremath{\text{\%}} To fit general Gaussians use the line:
                 s2(:,:,i) = (x'-repmat(mu2(:,i),1,n))*(repmat(Z(:,i),1,D).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z(:,i),1,D)).*(x'-repmat(Z
repmat(mu2(:,i),1,n))')./sum(Z(:,i));
              p1(i) = (mean(Z(:,i)))
```

```
end
    clf
    hold on
    plot(x1(:,1),x1(:,2),'.');
    for i=1:k
     plot gaussian(2*s1(:,:,i),mu1(:,i),i,11);
    end
    drawnow;
 end
save('save file2','mu1','p1','s1')
  disp('Numerical Error in Loop - Possibly Singular Matrix');
end
%% p2
                                     % number of observations (n) and
[n D] = size(x2);
dimension (D)
                             % number of components
p2 = [ones(1,k)/k]';
                                    % mixing proportions
mu2 = x2(ceil(n.*rand(1,k)),:)';
                                      % means picked rgandomly from data
s2 = zeros(D, D, k);
                                     % covariance matrices
niter=100;
                                     % number of iterations
% initialize covariances
for i=1:k
  s2(:,:,i) = cov(x2)./k;
                          % initially set to fraction of data
covariance
set(gcf, 'Renderer', 'zbuffer');
clear Z;
try
  % run EM for niter iterations
  for t=1:niter,
    fprintf('t=%d\r',t);
    % Do the E-step:
    for i=1:k
      Z(:,i) = p2(i)*det(s2(:,:,i))^(-0.5)*exp(-0.5*sum((x2'-
repmat(mu2(:,i),1,n))'*inv(s2(:,:,i)).*(x2'-repmat(mu2(:,i),1,n))',2));
    end
    Z = Z./repmat(sum(Z,2),1,k);
    % Do the M-step:
    for i=1:k
     mu2(:,i) = (x2'*Z(:,i))./sum(Z(:,i));
      % We will fit Gaussians with diagonal covariances:
      s2(:,:,i) = diag((x2'-repmat(mu2(:,i),1,n)).^2*Z(:,i)./sum(Z(:,i)));
      % To fit general Gaussians use the line:
```

```
%s2(:,:,i) = (x'-repmat(mu2(:,i),1,n))*(repmat(Z(:,i),1,D).*(x'-repmat(mu2(:,i),1,n))')./sum(Z(:,i));

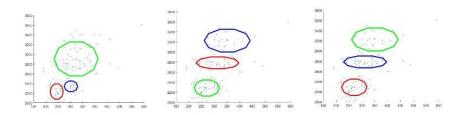
p2(i) = (mean(Z(:,i)))
end

clf
hold on
plot(x2(:,1),x2(:,2),'.');
for i=1:k
   plot_gaussian(2*s2(:,:,i),mu2(:,i),i,11);
end
   drawnow;
end
save('save_file1','mu2','p2','s2')
catch
disp('Numerical Error in Loop - Possibly Singular Matrix');
```

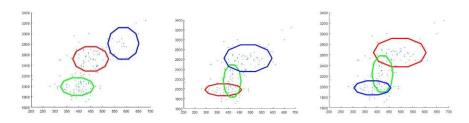
end

When K=3,

(phonme1)

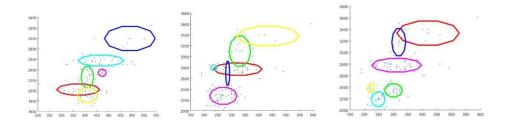


(phonme2)

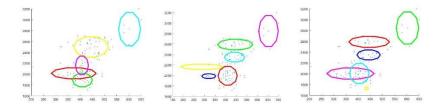


When K=6

(phonme1)



(phonme2)



Different order of converge. It runs several times with different initialisations. The quatily of each solution is determined by evaluating the cost function. The solution lowest cost is chosen. It converge to local minima only. When K=6, it has more ways to converge to local minimum.

Task 3

```
load('save file1.mat');
load('save file2.mat');
x1 = load data(1);
x1=x1(131:end,:); %test data phonme1
x2 = load data(2);
x2 = x2(131:end,:); %test data phonme2
[n,D] = size(x1);
k=3;
P13=0;
for i=1:k %matrix for phenome 1
     partsumP13 = (p1(i))/((2*pi)^(D/2))*(det(s1(:,:,i))^(-0.5));
     partexpP13=exp(-0.5*sum((x1'-
repmat(mu1(:,i),1,n))'*inv(s1(:,:,i)).*(x1'-repmat(mu1(:,i),1,n))',2));
P13=P13 + partsumP13* partexpP13;
end
P23=0;
for i=1:k %matrix for phenome 1
     partsumP23 = (p2(i))/((2*pi)^(D/2))*(det(s2(:,:,i))^(-0.5));
     partexpP23=exp(-0.5*sum((x1'-
repmat(mu2(:,i),1,n))'*inv(s2(:,:,i)).*(x1'-repmat(mu2(:,i),1,n))',2));
     P23=P23 + partsumP23* partexpP23;
End
predicted class = (P23>P13)+1; %classififation error
sum(predicted class==2)/size(predicted class,1)
%% Phonme=2
P13=0;
[n,D] = size(x2);
for i=1:k
```

```
partsumP13 = (p1(i))/((2*pi)^(D/2))*(det(s1(:,:,i))^(-0.5));
    partexpP13=exp(-0.5*sum((x2'-
repmat(mu1(:,i),1,n))'*inv(s1(:,:,i)).*(x2'-repmat(mu1(:,i),1,n))',2));
    P13=P13 + partsumP13* partexpP13;
end

P23=0;

for i=1:k
    partsumP23 = (p2(i))/((2*pi)^(D/2))*(det(s2(:,:,i))^(-0.5));
    partexpP23=exp(-0.5*sum((x2'-
repmat(mu2(:,i),1,n))'*inv(s2(:,:,i)).*(x2'-repmat(mu2(:,i),1,n))',2));
    P23=P23 + partsumP23* partexpP23;
end

predicted_class = (P23>P13)+1; %classififation error
    sum(predicted_class==1)/size(predicted_class,1)
```

Misclassification error

	Phonme=1	Phonme=2
K=3	0.1364	0.1254
K=6	0.0455	0.4091

Taking 131st and the rest as the test data, calculate the like likelihood of a data vector for each by using MoGs. If there is misclassified would appear 1(yes), then all +1 to get the new class. Then each miss-classified/all class to get the misclassification error. K=6 having a lower error.

Task 4

```
load('save file1.mat');
load('save file2.mat');
x1 = load data(1);
x2 = load data(2);
X = [x1; x2];
max X=max(X); %max-value of phonme1,2
min X=min(X); %min-value of phonme1,2
LenghtX=min X(1):max X(1); %setting the length for 1, from min to max
LenghtY=min_X(2):max_X(2); %setting the length for 2,from min to max
for o=1:size(LenghtX,2)
   xp=LenghtX(o) *ones(size(LenghtY,2),1);
   xp2=[xp,LenghtY'];
   x1=xp2;
    [n,D] = size(x1);
    k=6;
   P13=0;
    for i=1:k
          partsumP13 = (p1(i))/((2*pi)^(D/2))*(det(s1(:,:,i))^(-0.5));
          partexpP13=exp(-0.5*sum((x1'-
repmat(mu1(:,i),1,n))'*inv(s1(:,:,i)).*(x1'-repmat(mu1(:,i),1,n))',2));
          P13=P13 + partsumP13* partexpP13;
    end
   P23=0;
    for i=1:k
          partsumP23 = (p2(i))/((2*pi)^(D/2))*(det(s2(:,:,i))^(-0.5));
          partexpP23=exp(-0.5*sum((x1'-
repmat(mu2(:,i),1,n))'*inv(s2(:,:,i)).*(x1'-repmat(mu2(:,i),1,n))',2));
          P23=P23 + partsumP23* partexpP23;
    predicted class = (P23>P13)+1;
    M(o,:)=predicted class; %taking the right classification.
end
imagesc(M);
                            K=3
                                             k=6
```

The yellow is phoneme 1, blue is phoneme 2.

Matrix M

1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
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```
f1 = a.f1;
          f2 = a.f2;
          x=[f1, f2, f1+f2];
         %% % Simple script to do EM for a mixture of Gaussians.
% based on code from Rasmussen and Ghahramani
% (http://www.gatsby.ucl.ac.uk/~zoubin/course02/)
% Initialise parameters
[n D] = size(x);
                                                                                           % number of observations (n) and
dimension (D)
k = 3;
                                                                                            % number of components
p = ones(1,k)/k;
                                                                                            % mixing proportions
mu = x(ceil(n.*rand(1,k)),:)';
                                                                                          % means picked rqandomly from data
s2 = zeros(D, D, k);
                                                                                           % covariance matrices
niter=100;
                                                                                          % number of iterations
% initialize covariances
for i=1:k
    s2(:,:,i) = cov(x)./k; % initially set to fraction of data
covariance
end
set(gcf,'Renderer','zbuffer');
clear Z;
try
     % run EM for niter iterations
     for t=1:niter,
         fprintf('t=%d\r',t);
          % Do the E-step:
          for i=1:k
               Z(:,i) = p(i)*det(s2(:,:,i))^(-0.5)*exp(-0.5*sum((x'-
repmat(mu(:,i),1,n))'*inv(s2(:,:,i)).*(x'-repmat(mu(:,i),1,n))',2));
          Z = Z./repmat(sum(Z,2),1,k);
          % Do the M-step:
          for i=1:k
              mu(:,i) = (x'*Z(:,i))./sum(Z(:,i));
               % We will fit Gaussians with diagonal covariances:
                %s2(:,:,i) = diag((x'-
repmat (mu(:,i),1,n)). ^2*Z(:,i). /sum(Z(:,i))) + (x-repmat(mu(:,i),1,n))*(x-repmat(mu(:,i),1,n))*
repmat (mu(:,i),1,n)) '+ diag (ones (D,1)*1);;
                % To fit general Gaussians use the line:
                s2(:,:,i) = (x'-repmat(mu(:,i),1,n))*(repmat(Z(:,i),1,D).*(x'-repmat(z(:,i),1,D).*(x'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),1,D).*(z'-repmat(z(:,i),
repmat (mu(:,i),1,n))')./sum(Z(:,i))+ diag(ones(D,1)*1);
```

```
p(i) = mean(Z(:,i));
end

clf
hold on
plot(x(:,1),x(:,2),'.');
for i=1:k
   plot_gaussian(2*s2(:,:,i),mu(:,i),i,11);
end
drawnow;
end

catch
disp('Numerical Error in Loop - Possibly Singular Matrix');
end;
```

The problem would be overfitting. MoGs can potentially exhibit a very intertesing form of overfitting – singular points. When likelihood approaching to infinty. These singular points ALWAYS exist. They can be avoided by constraining the covariances always above some minimum value.

We regularise the cpnvariance matrix by adding a diagonal martrix.

