**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

clc;clear;

function result=task1(ph)

a = load('PB\_data.mat');

f1 = a.f1;

f2 = a.f2;

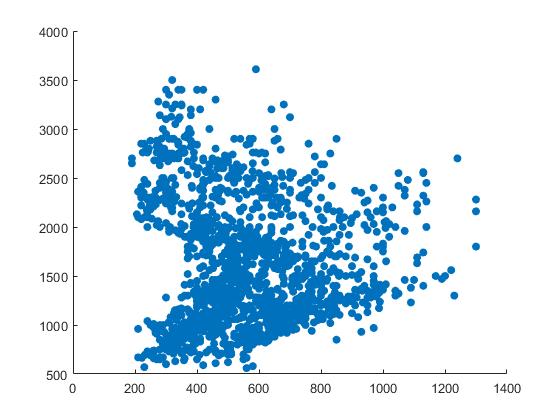
phno=a.phno;

x1=[f1(phno==ph),f2(phno==ph)];

x2=[f1(phno==2),f2(phno==2)];

scatter(f1,f2,'filled');

end



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

mu1 = x1(ceil(n.\*rand(1,k)),:)'; % means picked rqandomly from data

s1 = zeros(D,D,k); % covariance matrices

niter=100; % number of iterations

% 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;

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) = 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));

end

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)));

% 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));

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')

catch

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

end

%% p2

[n D] = size(x2); % number of observations (n) and dimension (D)

% number of components

p2 = [ones(1,k)/k]'; % mixing proportions

mu2 = x2(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(x2)./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) = 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')

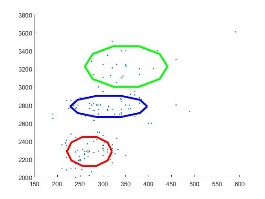
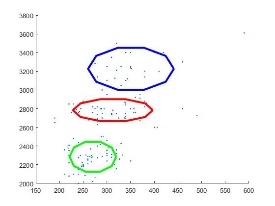
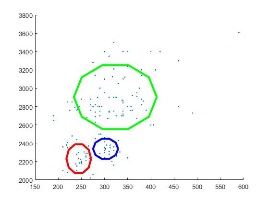
catch

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

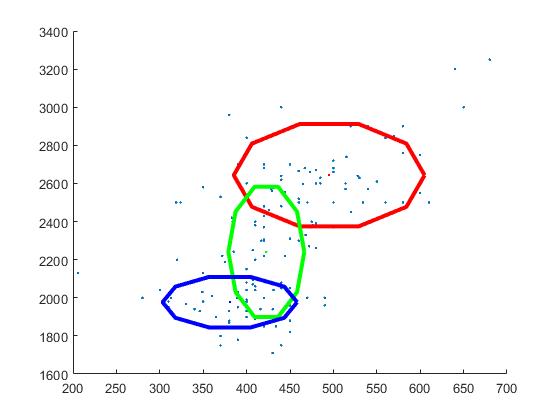
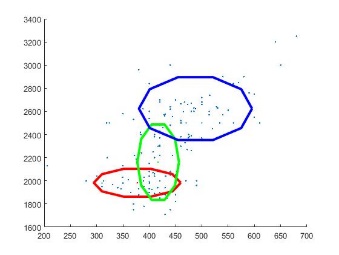
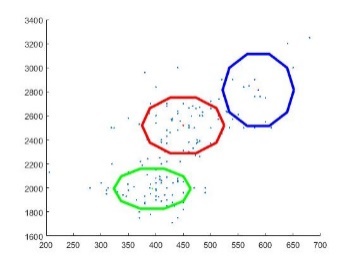
end

When K=3,

(phonme1)

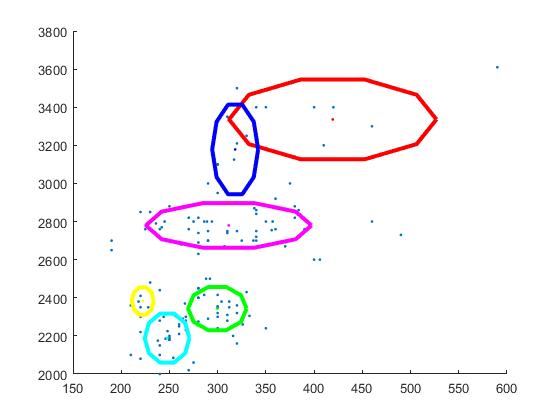
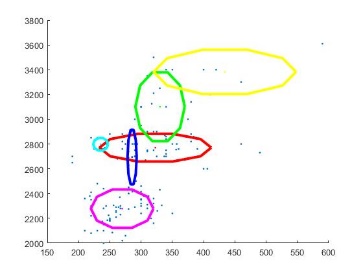
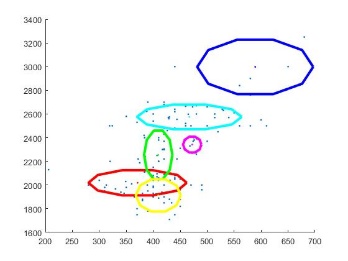


(phonme2)

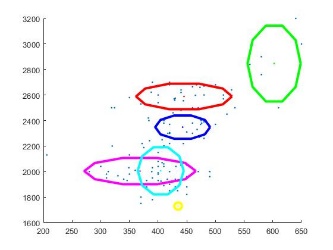
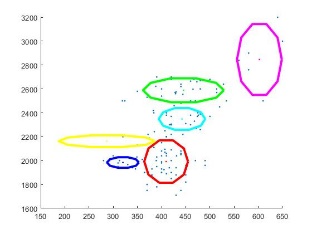
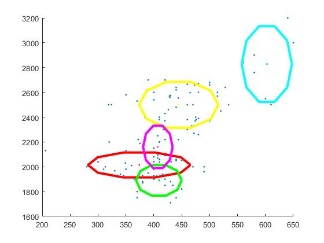


When K=6

(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. Thhe 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;

end

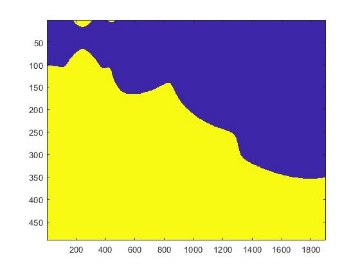
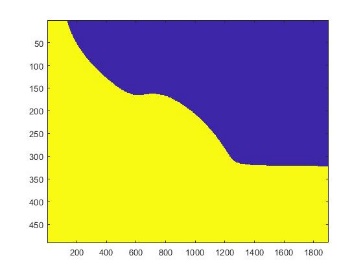
predicted\_class = (P23>P13)+1;

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 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 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 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 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 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 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 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 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 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 1 1

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Task5

a = load('PB\_data.mat');

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));

end

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))'+ 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(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.

