In [1]:

```python
# importing modules
import numpy as np
import numpy.linalg as LA
import math
from sklearn.naive_bayes import GaussianNB
```

In [60]:

```python
f = open("/home/tandon/IIIT-H/3rd/SMAI/arcene/arcene_train.data")
X = np.zeros((100, 10000))
row = 0
col = 0
for line in f:
    for token in line.split():
        X[row, col] = int(token)
        col += 1
    col = 0
    row += 1
```

In [8]:

```python
X[0,9999]
```

Out[8]:

524.0

In [66]:

```python
# Creating the RBF Kernel matrix
def kernel_pca(X, gamma, components):
    n = X.shape[0]
    K = np.zeros((n, n))
    for i in range(n):
        for j in range(n):
            difference = X[i,:] - X[j,:]
            dif_norm = LA.norm(difference)
            print('dif norm', dif_norm)
            prod = -1.0 * gamma * dif_norm
            K[i, j] = np.exp(prod)
            print('k val', K[i, j])

    onen = np.ones((n, n))/n
    # Centering the Kernel matrix
    K = K - onen.dot(K) - K.dot(onen) + onen.dot(K).dot(onen)

    eigen_values, eigen_vectors = LA.eig(K)
    print('Eigen vecs', eigen_values.shape)
    # Contains indices for largest to smallest eigen values
    idx = eigen_values.argsort()[::-1]
    alphas = eigen_vectors[:, idx[0:components]]
    lambdas = eigen_values[idx[0:components]]
    return alphas/lambdas


Q = kernel_pca(X, 0.025,3)
```

```
dif norm 0.0
k val 1.0
dif norm 6562.19140227
k val 5.64822670782e-72
dif norm 3905.20818907
k val 3.97869657495e-43
dif norm 4900.80779056
k val 6.16815803514e-54
dif norm 11730.721035
k val 4.31831823624e-128
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k val 6.14307494704e-153
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dif norm 15495.1860589
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k val 3.09055722173e-150
dif norm 14867.5771059
k val 3.77861453547e-162
dif norm 13290.8049418
k val 4.97644081658e-145
dif norm 13866.251368
k val 2.81247489877e-151
dif norm 14183.4388989
k val 1.01220573692e-154
```

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dif norm 6230.54829048
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k val 2.75117691203e-142
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k val 2.47844232822e-150
dif norm 6615.36650534
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k val 7.1052891248e-147
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dif norm 13049.10541
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dif norm 11930.4880872
k val 2.92665434253e-130
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dif norm 12323.7938964
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dif norm 9161.58381504
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k val 1.51362547764e-132
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dif norm 9874.98926582
k val 6.07667941498e-108
dif norm 11488.053447
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k val 2.73355085074e-130
dif norm 12994.2329901
k val 8.25862784786e-142
dif norm 0.0
k val 1.0
Eigen vecs (100,)
```

In [ ]:

```python
def project_point(point, X, alphas, gamma):
    kvec = np.array[np.sum((point - row)**2) for row in X]
    kvec = np.exp(- gamma * kvec)
    print('Projected point')
```

In [53]:

```python
asq = np.array([[1,2,3], [4,5,6], [7,8,9]])
asd = np.array([2,3,4])
print('Original\n', asq)
print('Broadcasted\n', asq*asd)
```

```
Original
 [[1 2 3]
 [4 5 6]
 [7 8 9]]
Broadcasted
 [[ 2  6 12]
 [ 8 15 24]
 [14 24 36]]
```

In [56]:

```python
X.shape
np.exp(-146936)
```

Out[56]:

```
0.0
```

In [ ]: