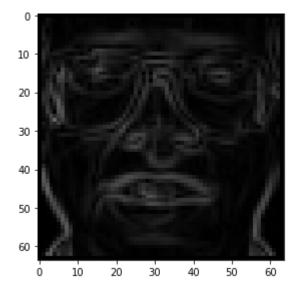
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```
In [46]: #practical-8 Randomforest
    #By Shubham S Kale
    import numpy as np
    from sklearn.model_selection import train_test_split
    from sklearn.preprocessing import StandardScaler
    from sklearn.ensemble import RandomForestClassifier
```

```
In [47]: from numpy.random import RandomState
    from sklearn.datasets import fetch_olivetti_faces
    rng = RandomState(0)
    dataset = fetch_olivetti_faces(shuffle=True, random_state=rng)
    X = dataset.data
    X = StandardScaler().fit_transform(X)
    faces=dataset.images
    y=dataset.target
    n_samples, n_features = X.shape
    print("Dataset consists of %d faces" % n_samples)
```

Dataset consists of 400 faces



1

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```
In [50]: X_train,X_test,y_train,y_test=cross_validation.train_test_split(X,y,test_size=
0.2)
    clf = RandomForestClassifier(max_depth=2, random_state=0)
    clf.fit(X_train, y_train)
    accuracy=clf.score(X_test,y_test)
    print (accuracy*100),"%"
22.5 %
```

In []: