**Dataset: Signature Detection**

**Dataset Overview:** The dataset contains image data of signatures of different people.

**Method:**

We have applied following methods:

* Convolutional Neural Network (CNN)

**Result:**

* CNN = 98.37 %

**CNN:**

**classes=18**

**filters=32**

**poolsize=2\*2**

**conv=3**

**loss='categorical\_crossentropy'**

**optimizer='adadelta'**

**metrics=['accuracy']**

**Activation=softmax,relu**

**epoch=5;**

**batch\_size=5;**

**image size= 50\*50**

**Dataset: Stock Market Prediction**

**Dataset Overview:**The dataset contains the each day stock market information about 600 company for four years.

**Method:**

We have applied following methods:

* LinearRegressionLasso
* RandomForestRegressor
* ElasticNet
* LassoLars
* Ridge
* Lasso
* BayesianRidge
* GradientBoostingRegressor
* RidgeCV
* LassoLarsCV
* LassoCV

**Result:**

* LinearRegressionLasso=60%
* RandomForestRegressor=50%
* ElasticNet=60%
* LassoLars=43%
* Ridge=60%
* Lasso=60%
* BayesianRidge=60%
* GradientBoostingRegressor=52%
* RidgeCV=60%
* LassoLarsCV=60%
* LassoCV=45%

**Parameters:**

RandomForestRegressor(estimators=8, max\_depth=8, random\_state=9, verbose=0)

Lasso(alpha=0.1)

RidgeCV(alphas=(0.2, 2.0, 20.0), cv=None, fit\_intercept=True, gcv\_mode=None,

normalize=False, scoring=None, store\_cv\_values=False)

LassoLarsCV(copy\_X=True, cv=None, eps=2.2204460492503131e-16,

fit\_intercept=True, max\_iter=500, max\_n\_alphas=1000, n\_jobs=1,

normalize=True, positive=False, precompute='auto', verbose=False)

LassoCV(alphas=None, copy\_X=True, cv=None, eps=0.001, fit\_intercept=True,

max\_iter=1000, n\_alphas=100, n\_jobs=1, normalize=False, positive=False,

precompute='auto', random\_state=None, selection='cyclic', tol=0.0001,

verbose=False)

other model used Default parameters.

**Dataset: Apartment Price Prediction**

**Dataset Overview:**The dataset contains the Apartment information and their prices.

**Method:**

We have applied following methods:

* LinearRegression
* RandomForestRegressor
* ElasticNet
* LassoLars
* HuberRegressorRidgeCV Regre
* Ridge
* Lasso
* BayesianRidge
* GradientBoostingRegressor
* RidgeCV
* LassoLarsCV
* LassoCV

**Result:**

* LinearRegression=70.7%
* RandomForestRegressor=84.39%
* ElasticNet=62.35%
* LassoLars=70.69%
* HuberRegressorRidgeCV Regre=47.52%
* Ridge=70.69%
* Lasso=70.7%
* BayesianRidge=70.69%
* GradientBoostingRegressor= 86.87%
* RidgeCV= 69.34%
* LassoLarsCV= 70.7%
* LassoCV= 52.35%

**Parameters:**

RandomForestRegressor(n\_estimators=8, max\_depth=8, random\_state=9, verbose=0)

RidgeCV(alphas=(0.2, 2.0, 20.0), cv=None, fit\_intercept=True, gcv\_mode=None,

normalize=False, scoring=None, store\_cv\_values=False)

LassoLarsCV(copy\_X=True, cv=None, eps=2.2204460492503131e-16,

fit\_intercept=True, max\_iter=500, max\_n\_alphas=1000, n\_jobs=1,

normalize=True, positive=False, precompute='auto', verbose=False)

LassoCV(alphas=None, copy\_X=True, cv=None, eps=0.001, fit\_intercept=True,

max\_iter=1000, n\_alphas=100, n\_jobs=1, normalize=False, positive=False,

precompute='auto', random\_state=None, selection='cyclic', tol=0.0001,

verbose=False)

other used default parameters