

RESULTS

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For Project 3, we looked at a dataset of images of genuine and forged banknotes. We used logistic regression on a training set to attain suitable weights for the factors of variance, skewness, curtosis, and entropy. Then, we attempted to classify a test set of banknotes based on these weights. The results of this process are shown below.

Gradient Descent Program:

- Alpha: 1.3
- Number of iterations: 77
- Final J Value: 0.03395494668848878

Evaluation Program:

- True Positives: 123
- False Positives: 1
- True Negatives: 148
- False Negatives: 2
- Accuracy: 0.9890510948905109
- Precision: 0.9919354838709677
- Recall: 0.984
- F1 Score: 0.9879518072289156