

# CSE 537 Assignment 5 Report: ML Classifiers

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## 1 Introduction

This report describes our submission for assignment 5 in the CSE 537 course on artificial intelligence. Assignment 5 requires us to implement two kinds of machine learning classifiers: a decision tree classifier for predicting credit worthiness of applicants, and a naïve Bayes classifier for classifying handwritten digits. In this report, we discuss the implementation details and performance of our solutions.

## 2 Decision Tree Classifier

Jian Yang developed the decision tree classifier for predicting credit worthiness of applicants.

## 3 Naïve Bayes Classifier

Remy Oukaour developed the naïve Bayes classifier for classifying handwritten digits.

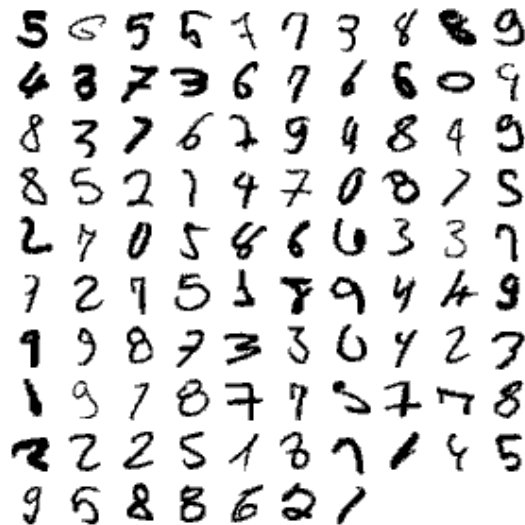


Figure 1: The 97 digits which the algorithm misclassified.