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In [1]: # imports
        import numpy as np
In [2]: # load the data
        arr = np.loadtxt(open('covtype.data', "rb"), delimiter=",")
In [3]: # find the largest class
        labels = arr[:, -1]
        counts = {
            1: 0,
            2: 0,
            3: 0,
            4: 0,
            5: 0,
            6: 0,
            7: 0
        for label in labels:
            counts[label] += 1
        print(counts)
        {1: 211840, 2: 283301, 3: 35754, 4: 2747, 5: 9493, 6: 17367, 7: 20510}
In [4]: # largest class is 2
        # according to the paper, set the largest class to positive and the rest
         to negative
        for i in range(len(labels)):
            arr[i, -1] = 1 if arr[i, -1] == 2 else 0
In [5]: # check that our labels are correct
        count = 0
        arr[:, -1]
        for label in arr[:, -1]:
            count += 1 if label == 1 else 0
        assert count == counts[2]
In [6]: # save in npy format for use by classifiers
        np.save('covtype.npy', arr)
```