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import sys
import numpy as np
import LinRegLearner as lrl, DTLearner as dtl, RTLearner as rtl


class BagLearner(object):
    def __init__(self, learner, kwargs, bags, boost=False, verbose=False):
        self.bags = bags
        self.boost = boost
        self.verbose = verbose
        self.learners = []
        self.kwargs = kwargs

        for i in range(bags):
            self.learners.append(learner(**kwargs))

        if verbose:
            self.get_learner_info()

    def add_evidence(self, dataX, dataY):
        samples = dataX.shape[0]
        for learner in self.learners:
            indices = np.random.choice(samples, samples, replace=True)
            bagX, bagY = dataX[indices], dataY[indices]
            learner.add_evidence(bagX, bagY)

    def query(self, points):
        preds = np.array([learner.query(points) for learner in self.learners])
        return np.mean(preds, axis=0)

    def author(self):
        return 'emoh6'

if __name__ == "__main__":
    print("Bag Learning")
```