linearRegression.py

My additions to this file were composed of the changes to each of the closed-form, batch gradient descent, and stochastic gradient descent function implementations. By using numpy and pandas for the mathematical operations shown in the slides/lectures, I made the necessary changes to the portions marked with

“########## Please Fill Missing Lines Here ##########”

logisticRegression.py

Once again, most of the additions to the skeleton code comprised of implementing the batch gradient descent and Newton Raphson method functions. However, in order to implement regularization, I chose to alter the program to accept a first argument of ‘2’, indicating that regularization (with a lambda value of 10) should be applied to the batch gradient descent. As a result, I defined another function, “getBeta\_BatchGradientRegularized”, that is substituted with the original batch gradient descent function when the program is invoked with the ‘2’ first argument.