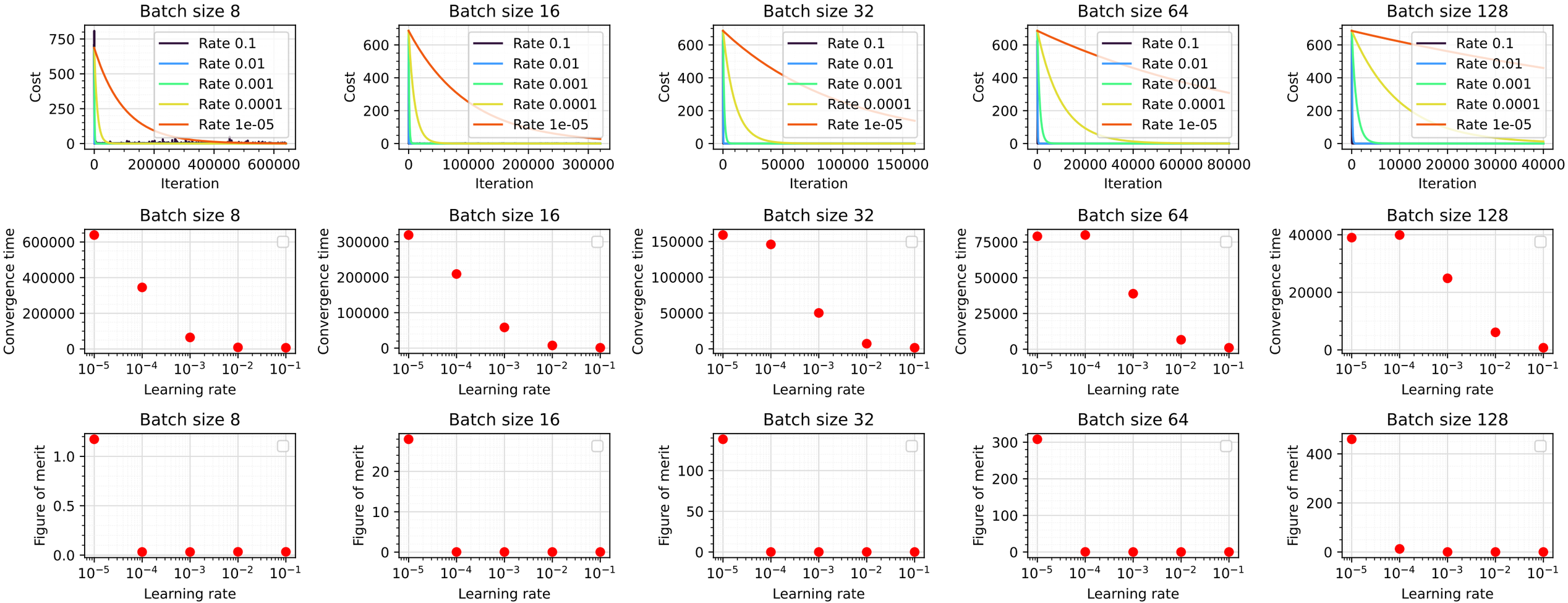
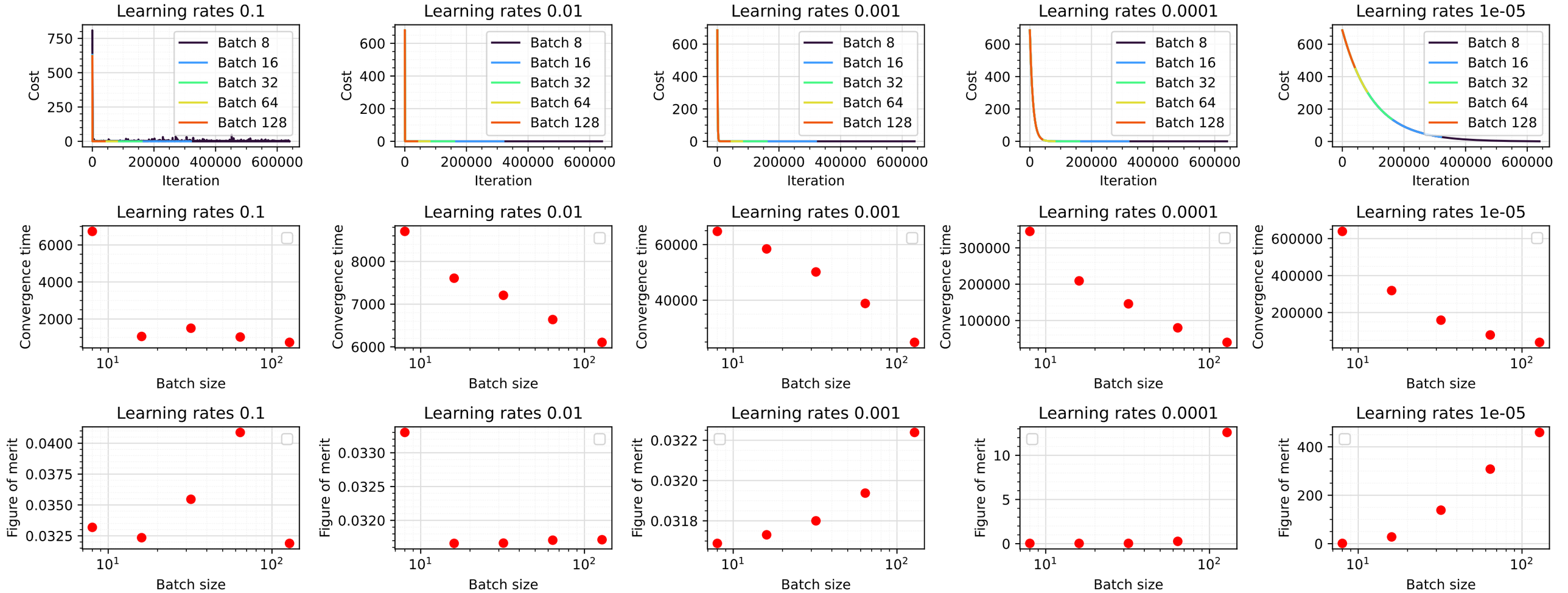
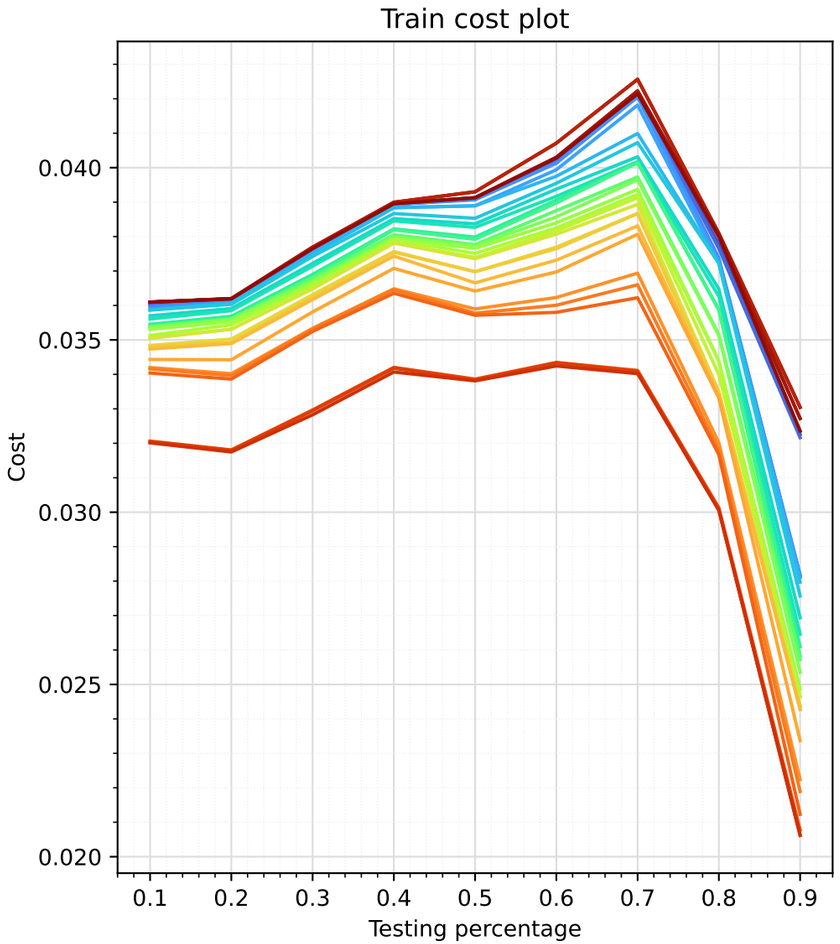
Row 1 shows the cost with respect to the number of iterations for different learning rates, while row 2 shows the time required to complete all the iterations. Each column represents a different batch size. This was done for the linear mini batch gradient descent with 5000 epochs.

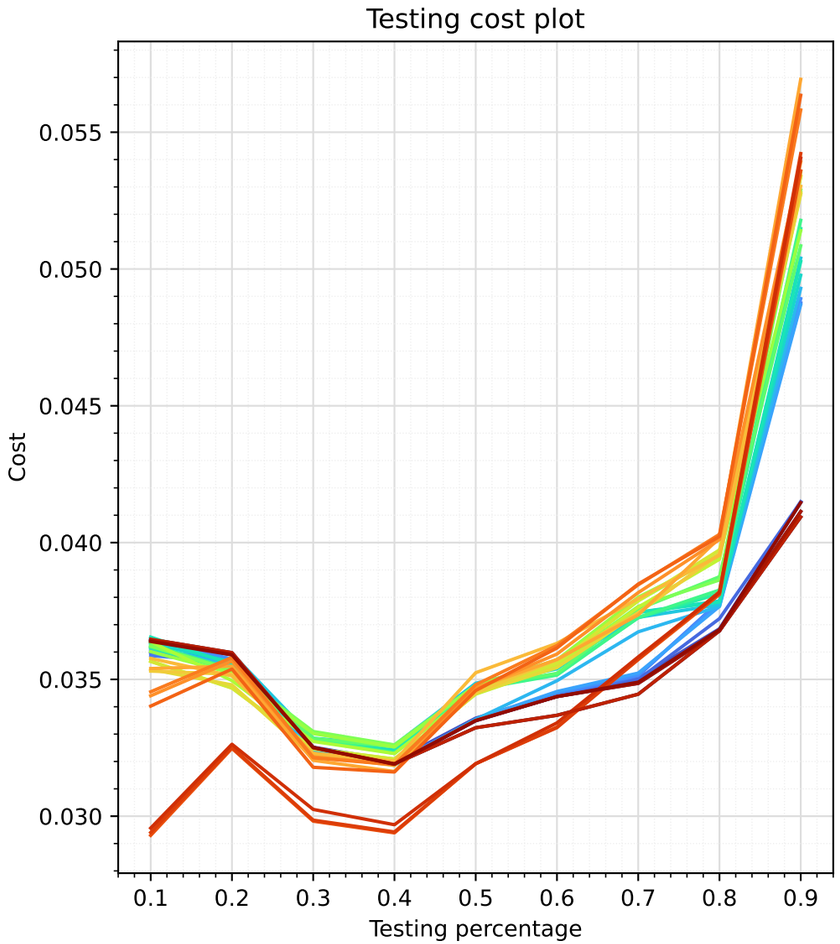


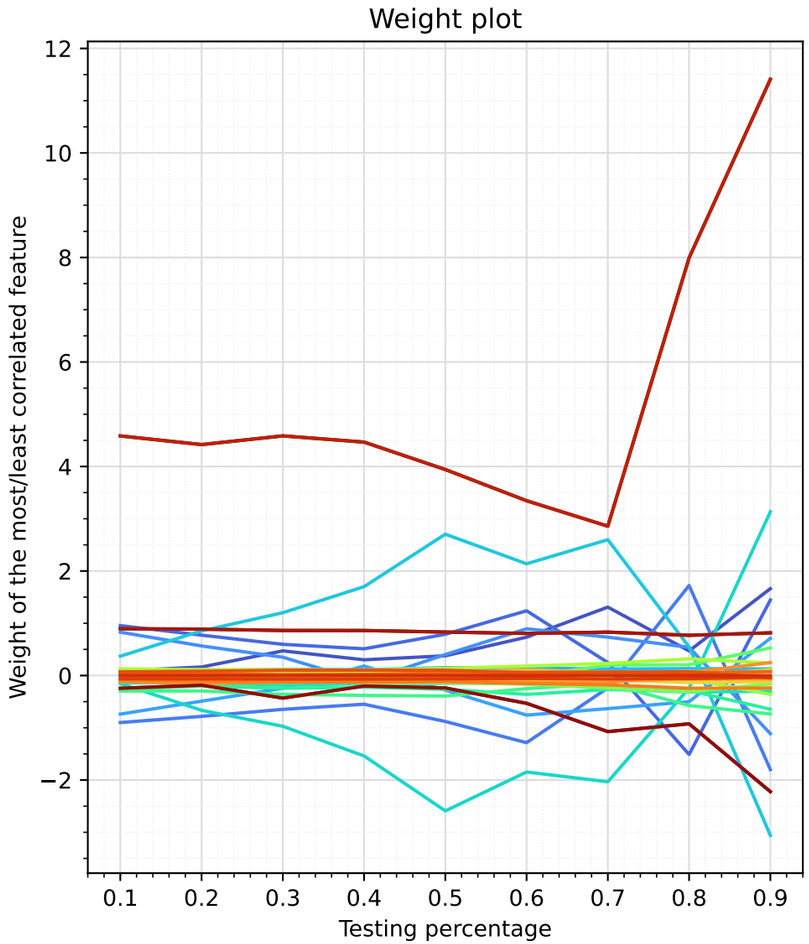
Row 1 shows the cost with respect to the number of iterations for different batch sizes, while row 2 shows the time required to complete all the iterations. Each column represents a different learning rate. This was done for the linear mini batch gradient descent with 5000 epochs.



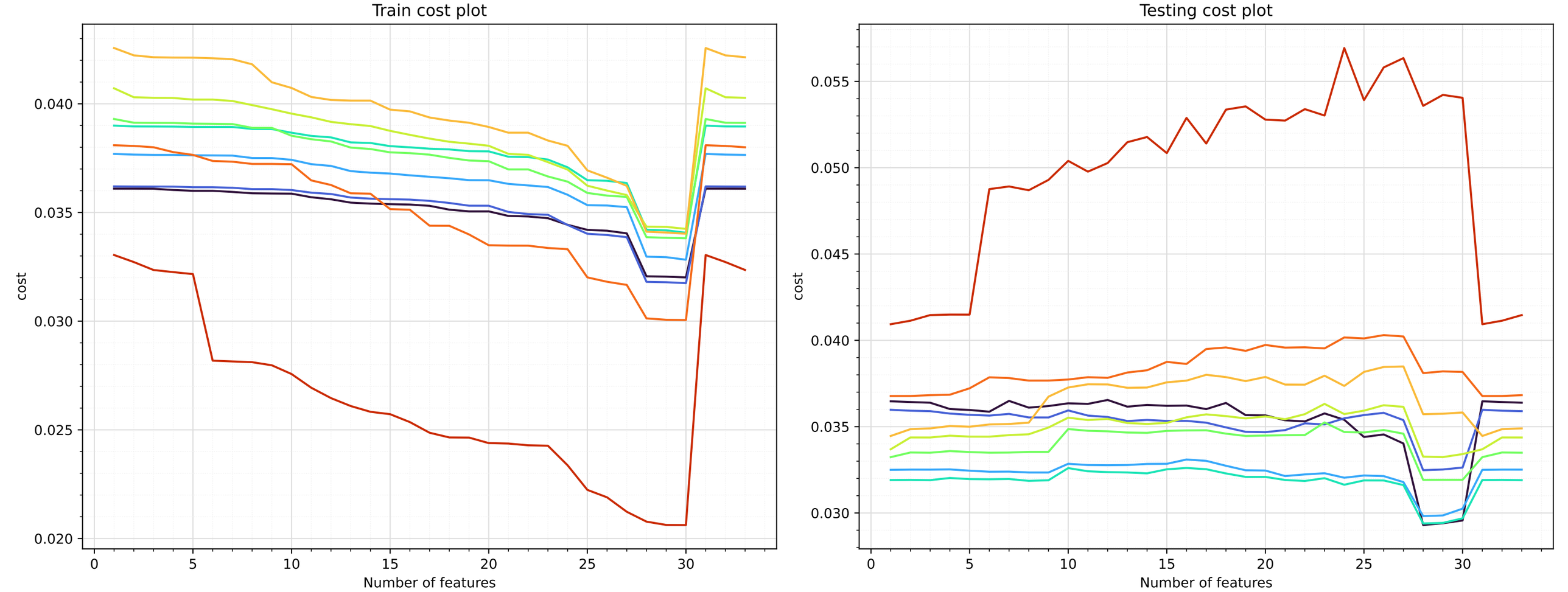
Cost of the training/testing data with respect to the percentage of testing data. Different colors represent different numbers of features included in the training (starting from the most correlated one alone and adding other features one by one). This was done for analytic linear regression.



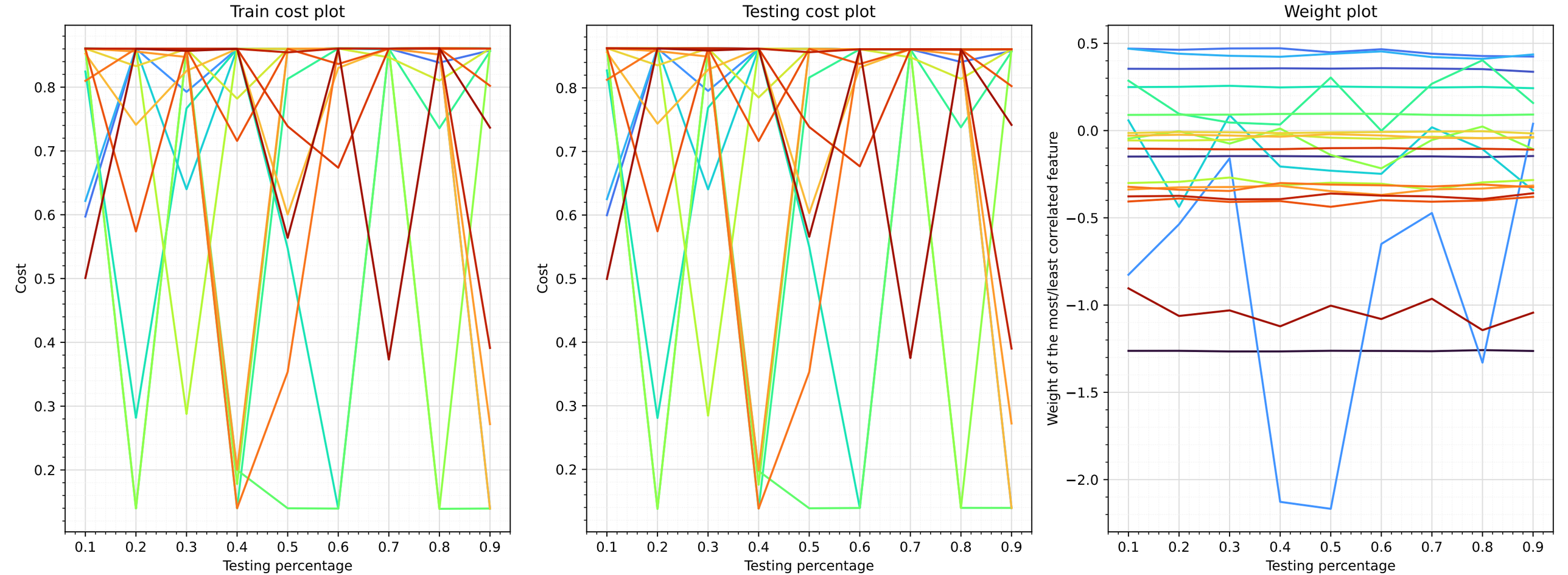




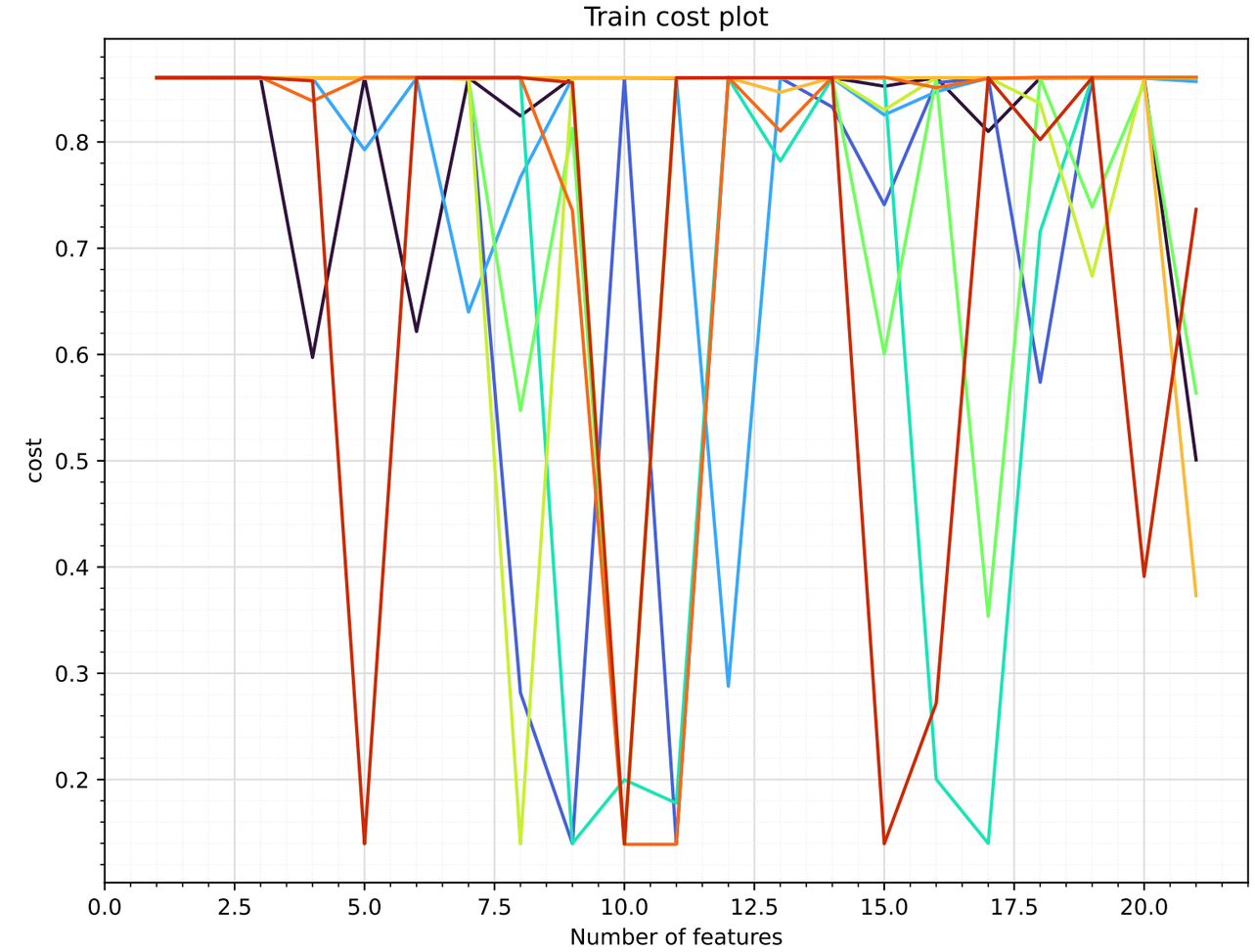
Cost of the training/testing data with respect to the number of features included in the training.
Different colors represent different percentages of testing data. This was done for analytic
linear regression.

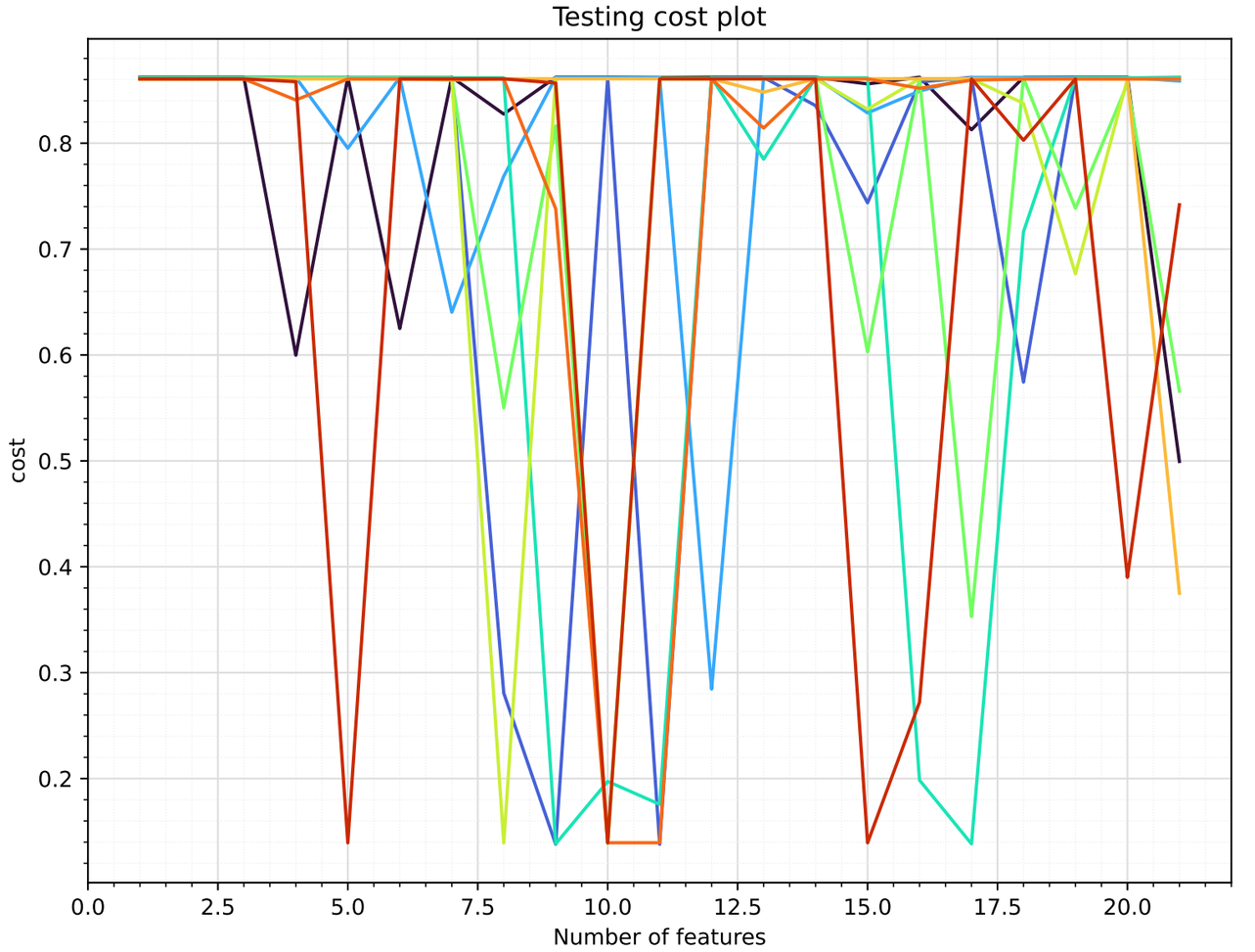


Cost of the training/testing data with respect to the percentage of testing data. Different colors represent different numbers of features included in the training (starting from the most correlated one alone and adding other features one by one). This was done for the full batch logistic regression with a learning rate of 0.01 with 200 iterations.

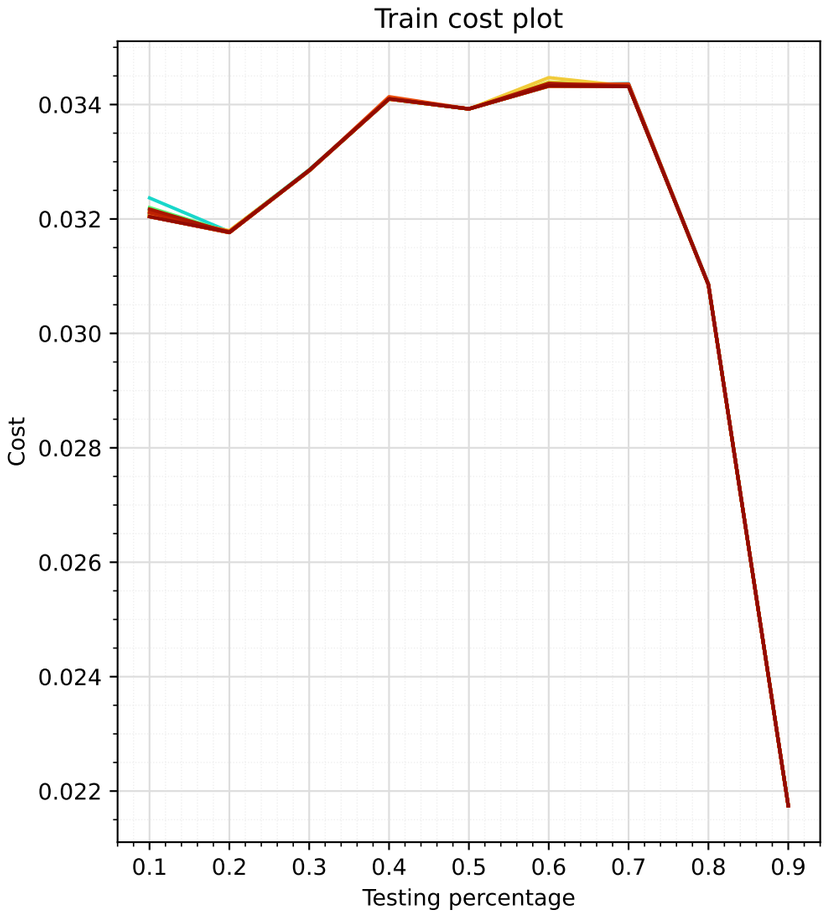


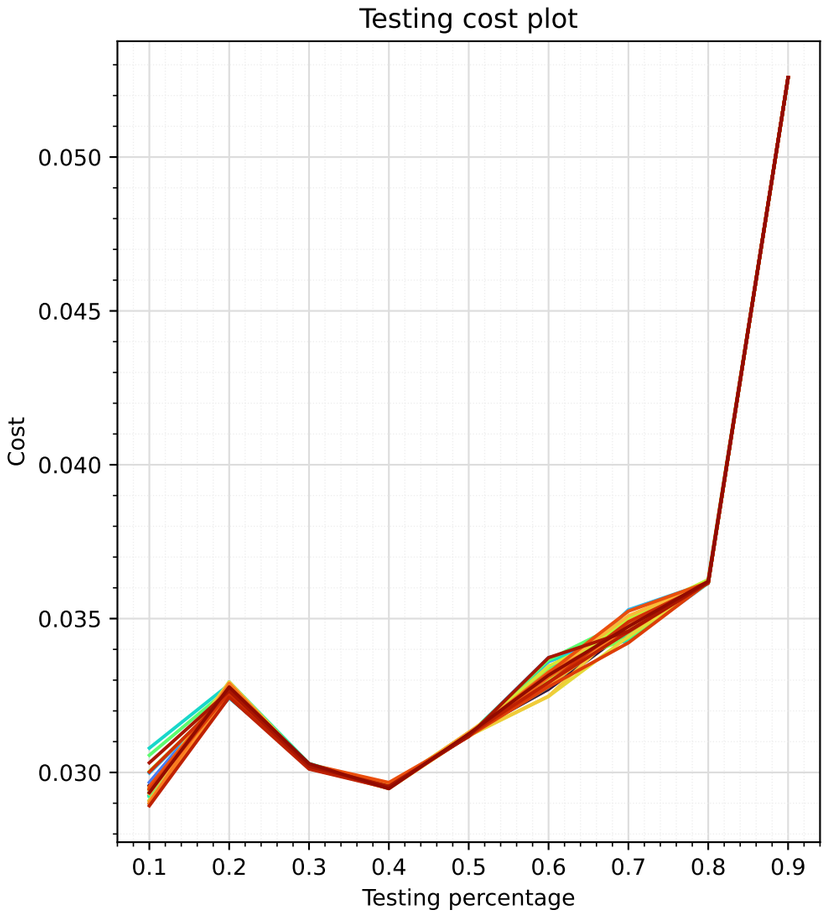
Cost of the training/testing data with respect to the number of features included in the training.
Different colors represent different percentages of testing data. This was done for analytic
logistic regression with a learning rate of 0.01 with 200 iterations.

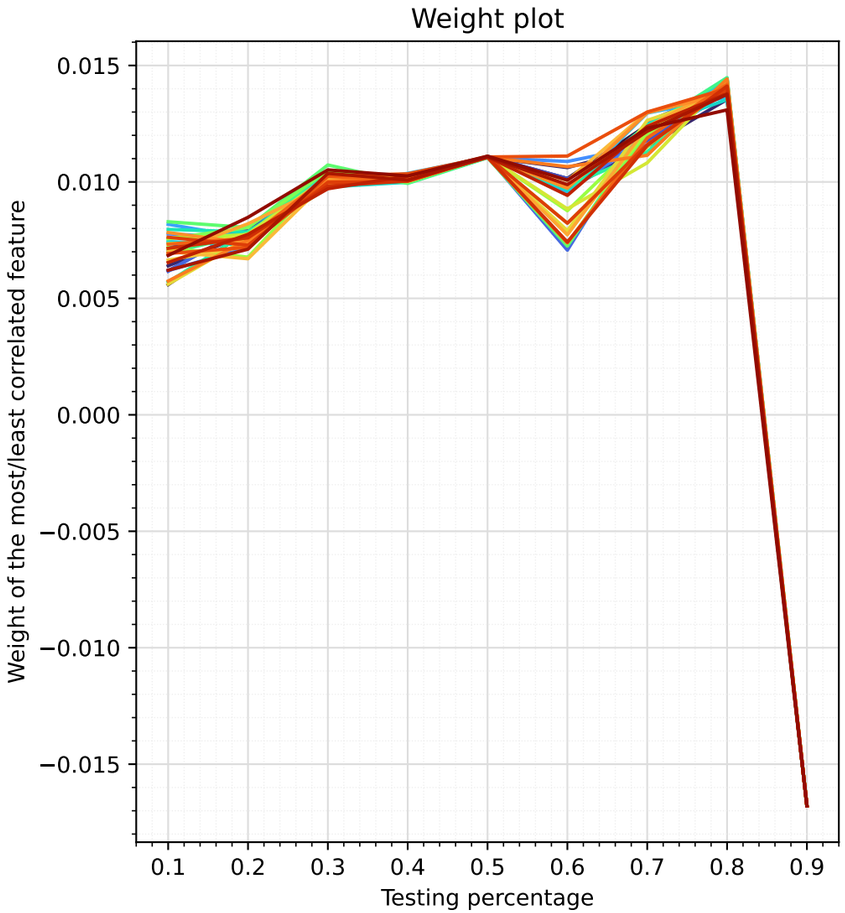




Cost of the training/testing data with respect to the percentage of testing data. Different colors represent different numbers of features included in the training (starting from the most correlated one alone and adding other features one by one). This was done for the mini batch stochastic gradient descent for linear regression with a learning rate of 0.01, mini batch size of 128, and number of epochs 75000.







Cost of the training/testing data with respect to the number of features included in the training. Different colors represent different percentages of testing data. This was done for the mini batch stochastic gradient descent for linear regression with a learning rate of 0.01, mini batch size of 128, and number of epochs 75000.