

ML HW1 Report

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Basic Part

$$\text{sbp} = 0.9486378390461381 * \text{dbp} + 50.00169355057738$$

Advanced Part

I used all the variables since I thought that every variable could affect the sbp, even though the affection is very tiny.

My origin way is to divide all the data into different group based on who and when the data take from (In implementation, I divided them into five group, each group contains the data with different people but at the same time)

After that, I can train different model for different period, then use these models to predict the test data.

But when I implemented it, I found that it was hard to find different model to train, if I use same model for different period, some will perform good, but some will perform so bad.

In the end, I discussed with my friends and found that the person in training data and testing data.csv are the same! So, I modified my model to be id-based model, different test case will apply to different model based on the id of the test case.

From this, I learned that watch the testing data is important, and discuss with friends is also important.

The origin model I want to do:

<https://chat.openai.com/share/d4fa50cc-43d6-4651-93c7-9f42a8c49a3a>