- 1. regression equation:grip\_force\_pred=w0+w1\*weight+w2\*weight^2
- 2. variable: age,gender,height,weight,bodyFat,diastolic,systolic
- 3.**regression equation:** grip\_force\_pred =w 0+w 1 · age+w 2 · gender+w 3 · height+w4 · weight+w5 · bodyFat+w6 · diastolic+w7 · systolic
- 4. **Problem encountered:** How to handle the NaN values in the data to improve accuracy.
- 5. How to solve the difficulty: Initially, I used the median of the column to fill in the NaN values, but the effect was limited. Later, I discarded the entire row containing NaN values, but the MAPE increased significantly.
- 6.**Reflection:** From this lab, I learned how to implement linear regression, as well as the importance and necessity of data preprocessing. I also understood that handling missing data and discarding extreme values can improve prediction accuracy.