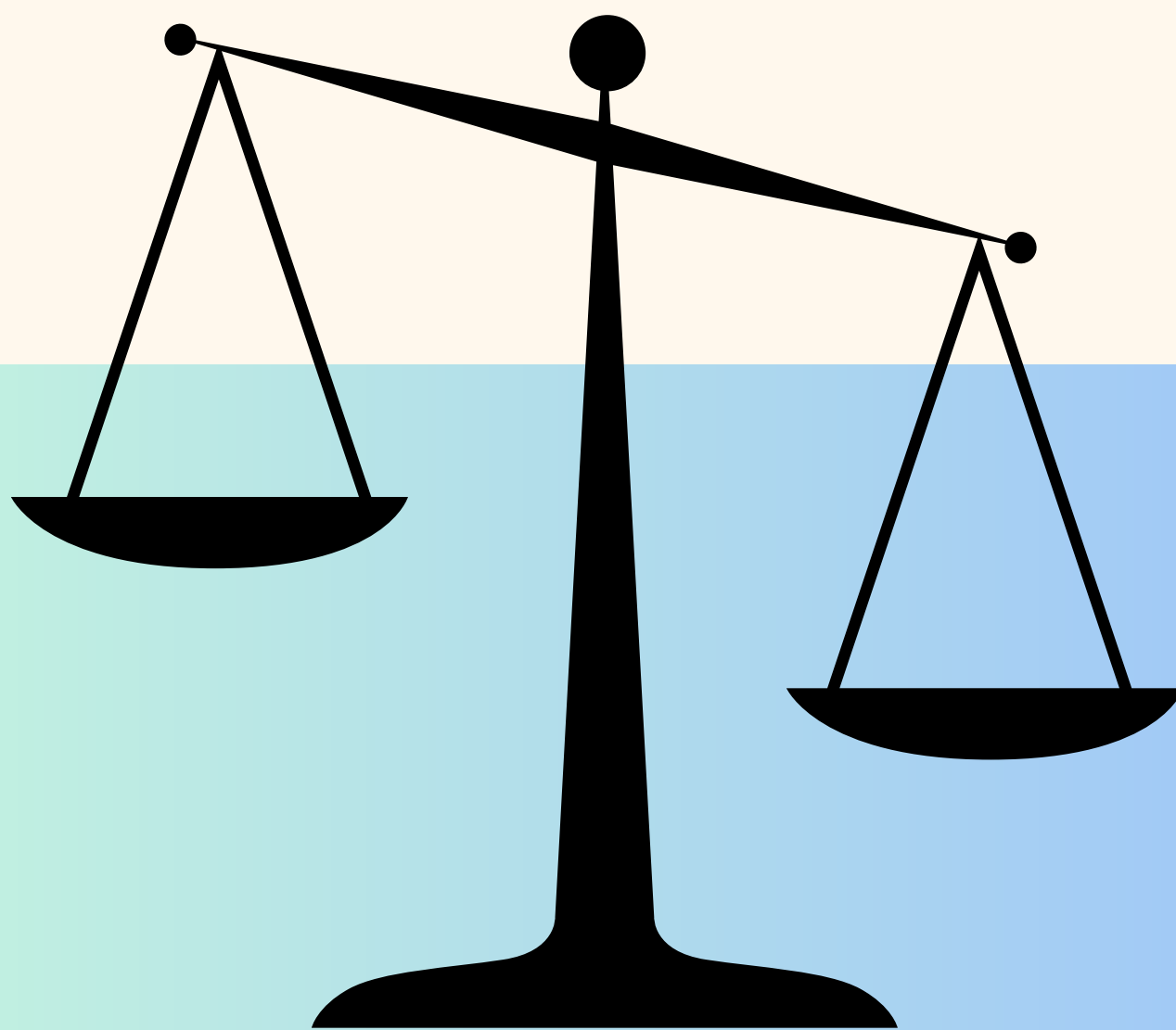
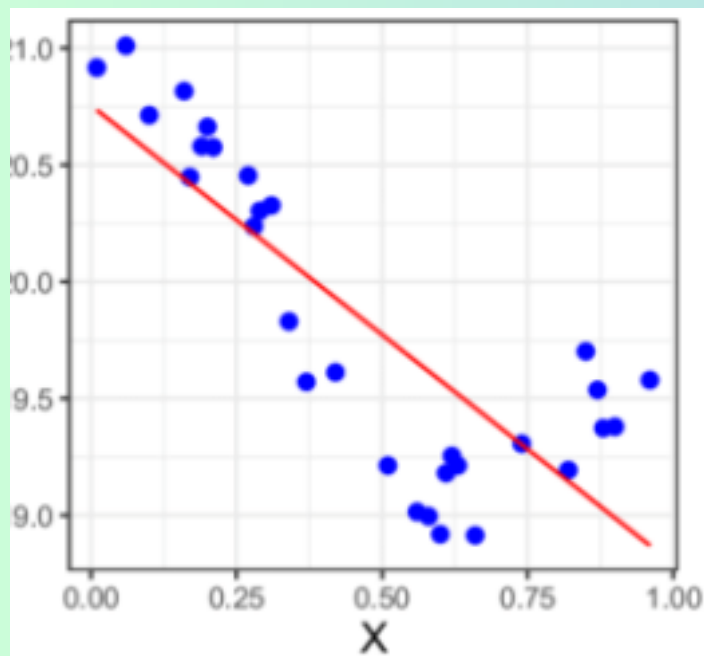


# What is Bias Variance tradeoff ?

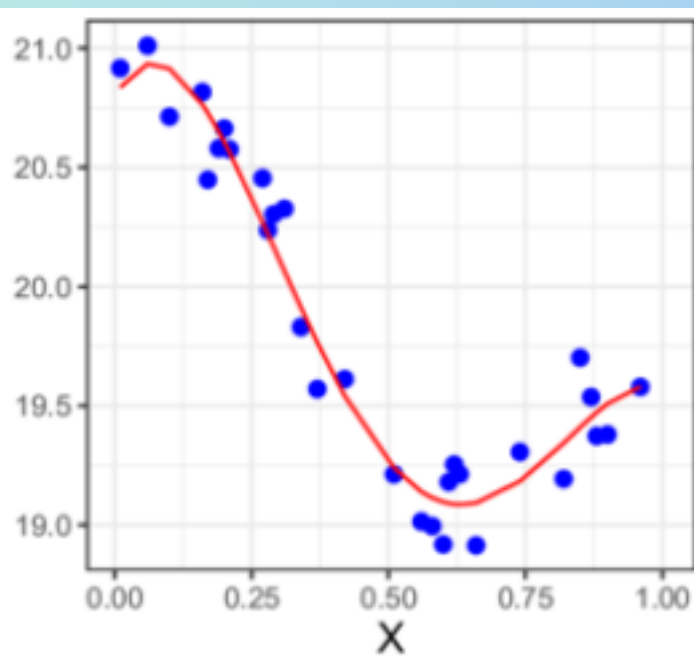


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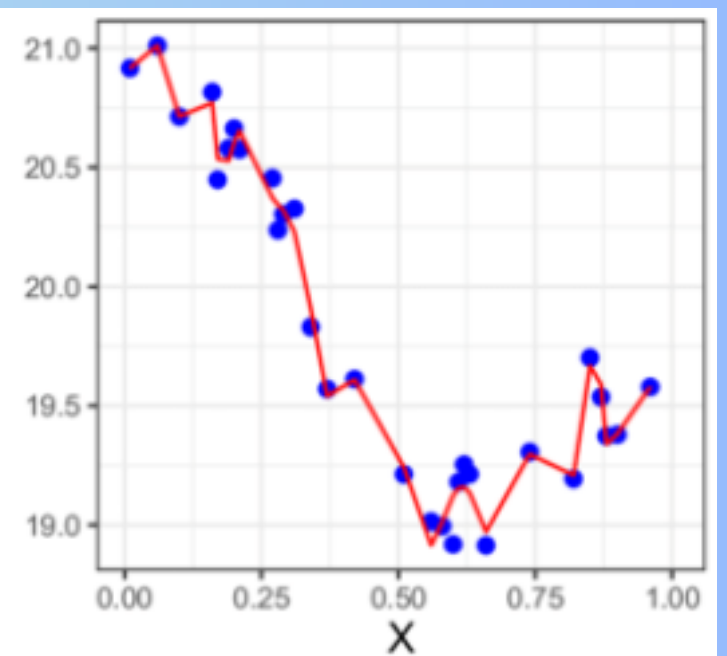
The bias-variance tradeoff is a fundamental concept in machine learning that deals with the balance between underfitting and overfitting.



Underfit

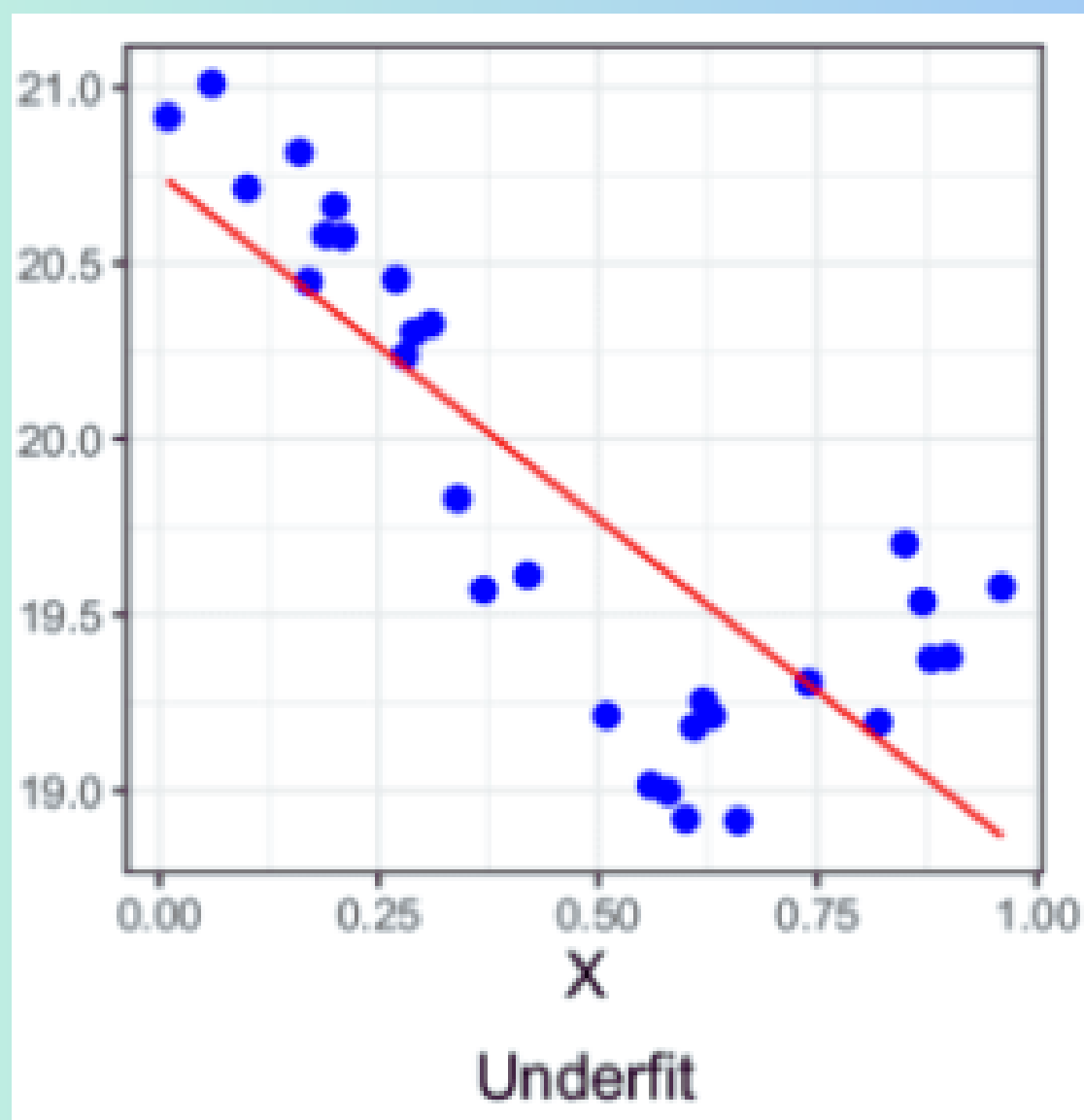


Good fit

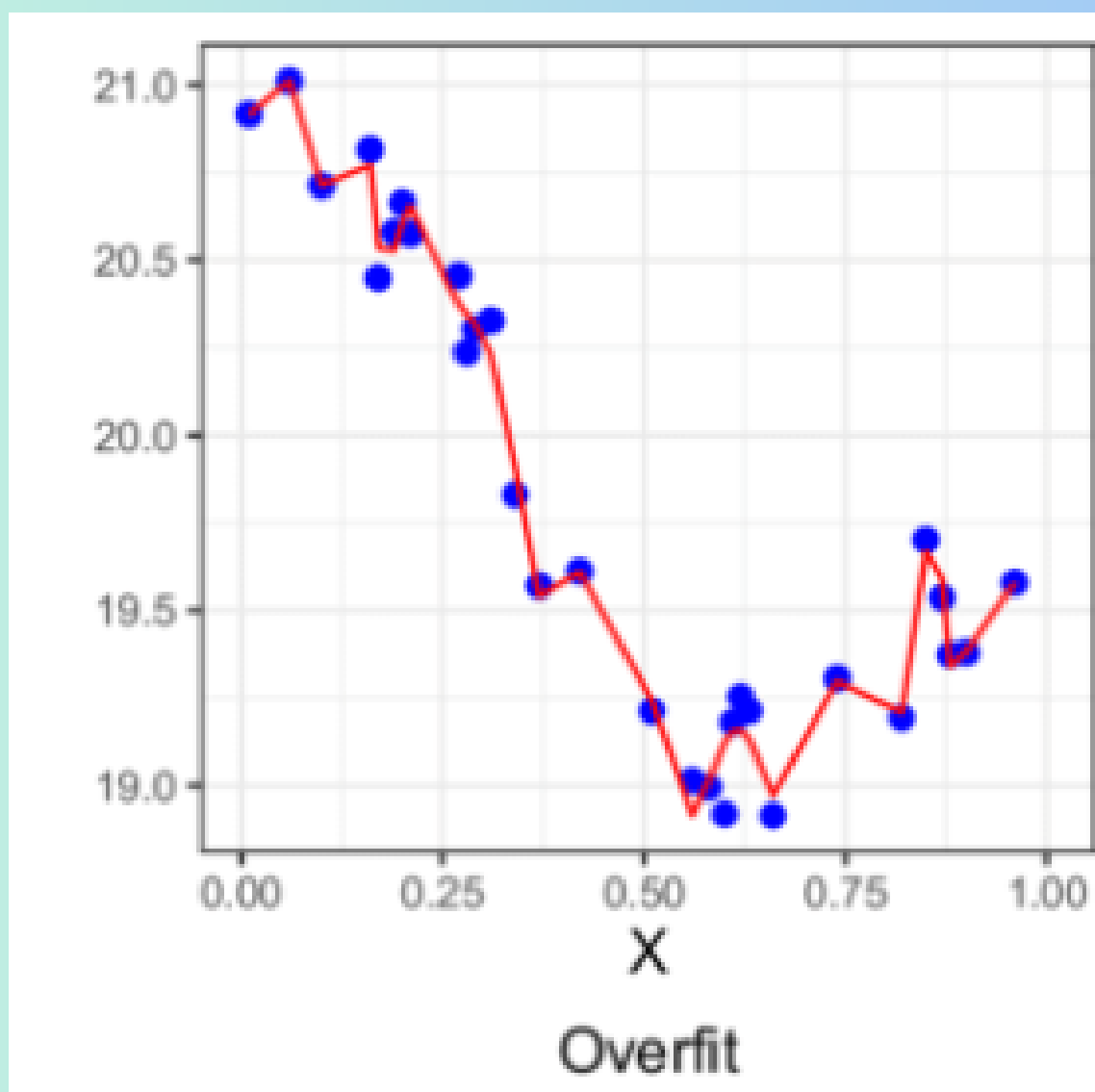


Overfit

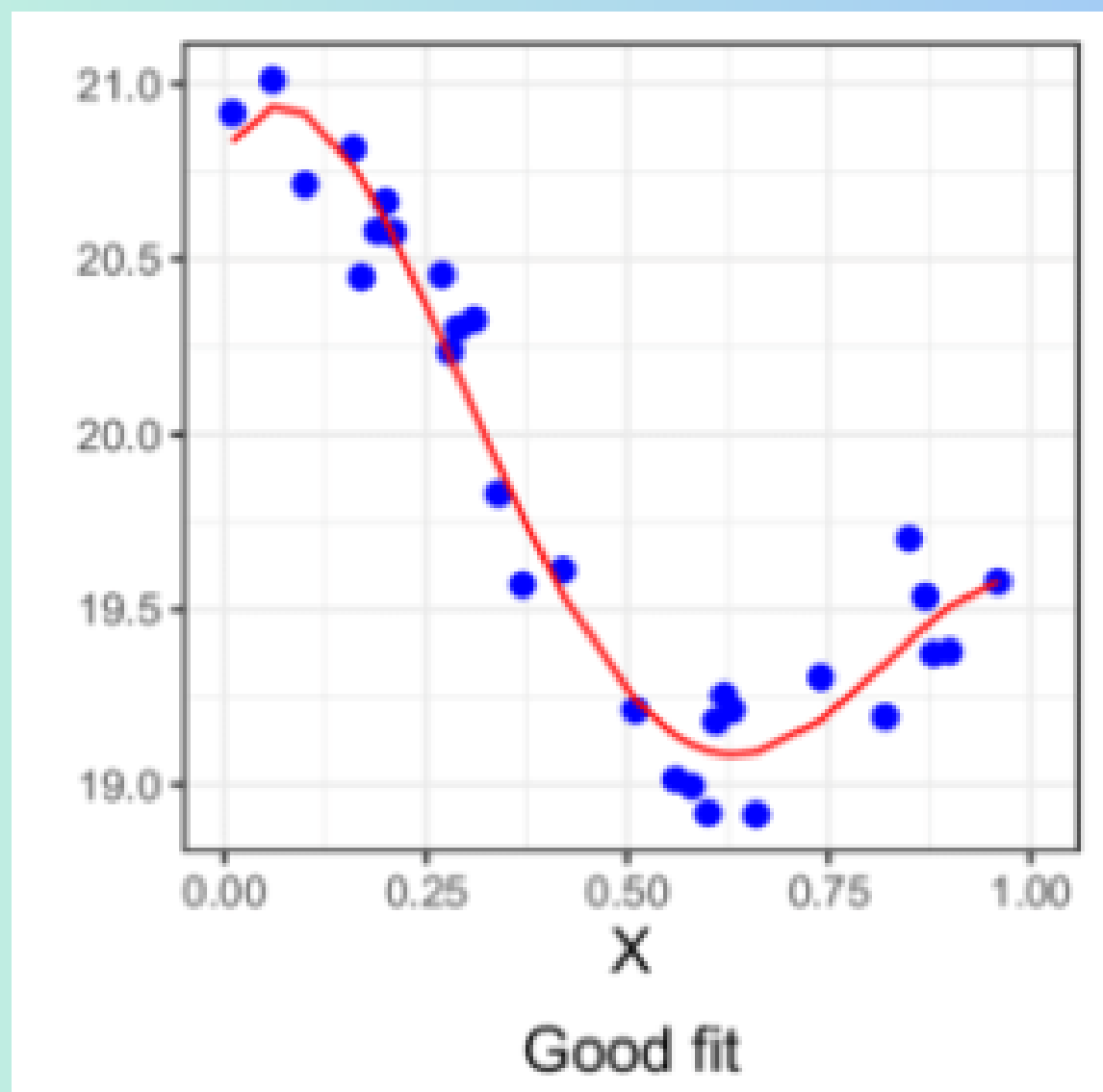
Bias is the error that occurs when a model is too simple and fails to capture the underlying relationships in the data



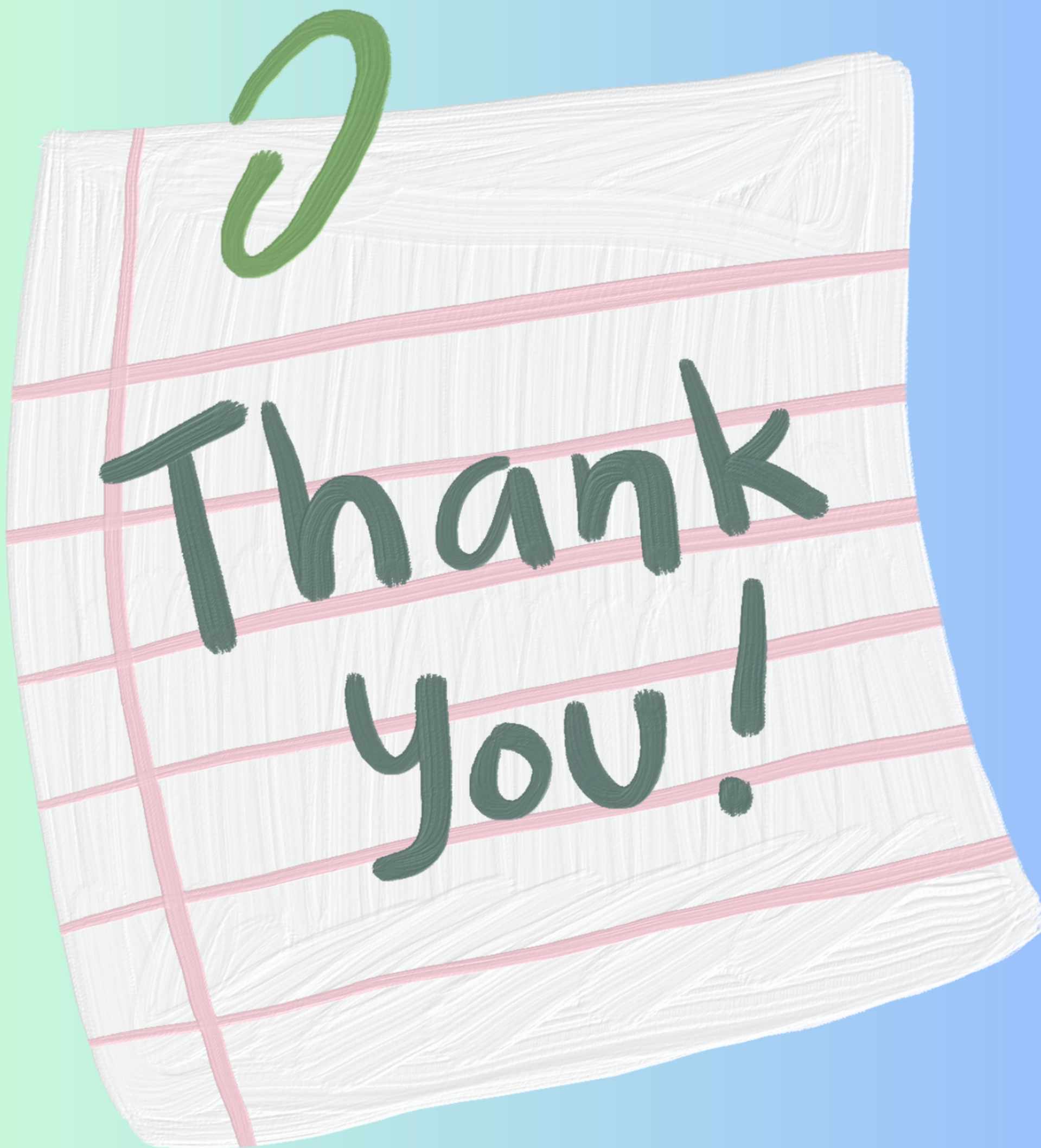
Variance is the error that occurs when a model is too complex and captures the noise in the data.



The goal is to find the sweet spot that minimizes both bias and variance, leading to a model that generalizes well to new data.







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