Notes

**Bias-Variance Tradeoff**

* **Bias** = error from overly simple models (underfitting).

| **Model** | **Bias** | **Variance** | **Example** |
| --- | --- | --- | --- |
| Logistic Regression | High | Low | May underfit Titanic survival |
| Random Forest | Low | Medium | Better balance |
| kNN (low k) | Low | High | Can overfit small datasets |

* **Variance** = error from overly complex models (overfitting).
* Goal: balance both.