Fish Market Project

By Team H: Michael, Stefano, Sam, and Isaac

Model and loss function

- Our model was based on polynomial regression with an initial order of 2.
- We used MSE as our loss function.

$$\mathrm{MSE} = \frac{1}{n}\sum_{i=1}^{n}(y_i - \tilde{y}_i)^2$$

Feature transformation, regularization, hyperparameters, etc.

.05

Value of α

2

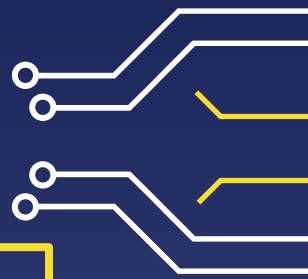
Order (Value of M)

L2 (Ridge)

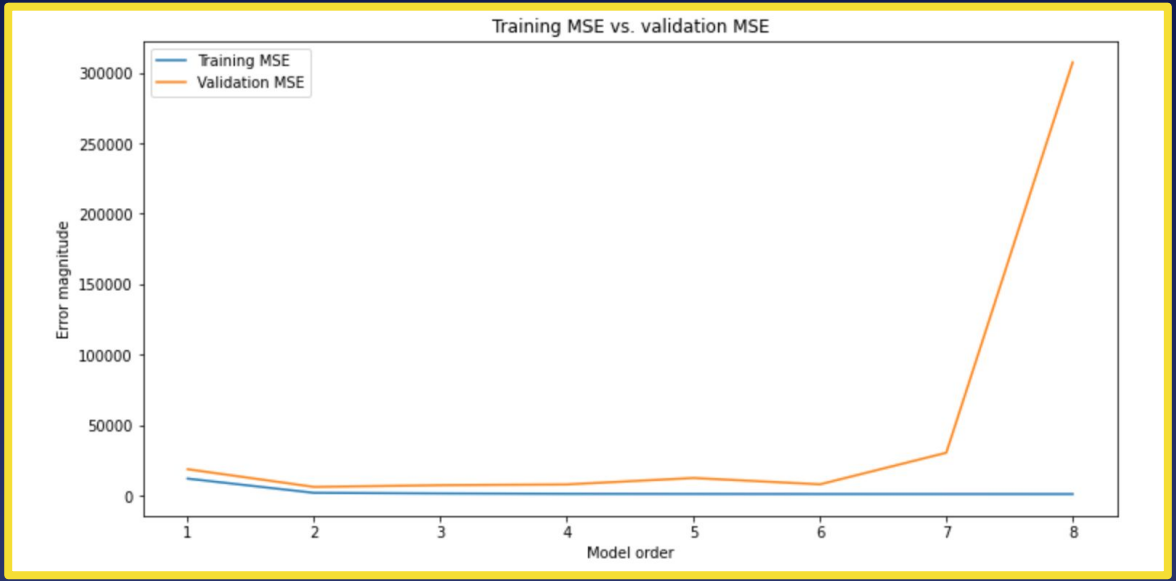
Regularization Type

Polynomial

Feature Transformation



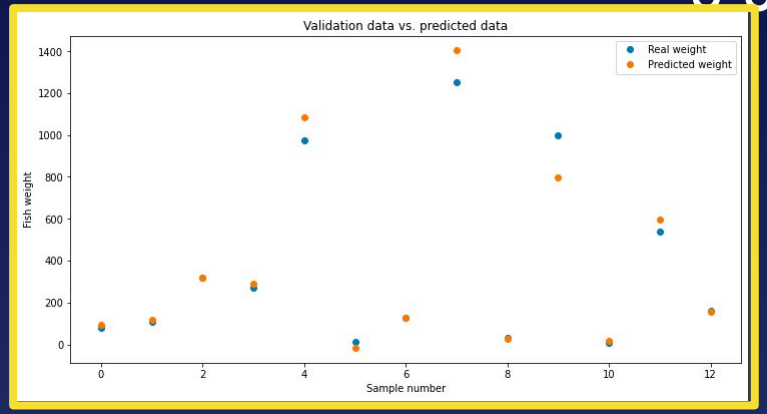
Training vs. validation error



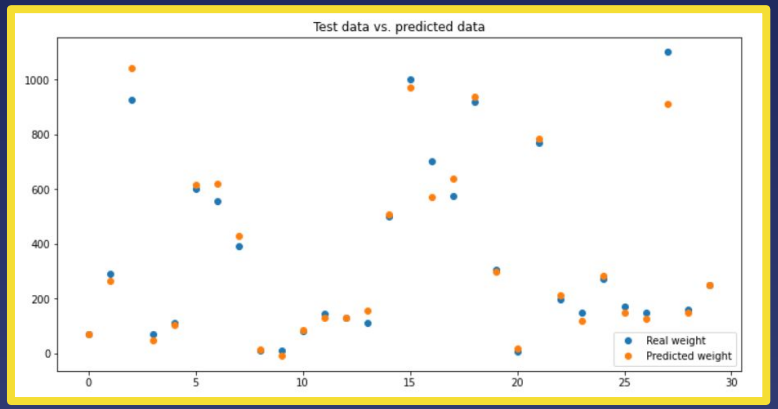
Model performance

Training

Validation



Test



Error Values

MAE	MSE	RMSE
30.1 / 46.9 / 31.9	1970 / 6168 / 2773	44.3 / 78.5 / 52.6

Training / Validation / Test (in grams)

Challenges

Revisions

- Simultaneous work was difficult!

Changing Orders

- Started at 5, but got MSE values in the 10,000s!

Loss of work

- Ridge regularization, Loss functions deleted

Conclusion

What did we learn?