

# Apply Error on 25% of the Training Dataset

|                  | Before              |                     | Error in Anime Type            |                                 | After |                     |
|------------------|---------------------|---------------------|--------------------------------|---------------------------------|-------|---------------------|
|                  | MSE on test dataset | Var on test dataset | Pct of detected error as movie | Pct detected error as tv series | MSE   | Var on test dataset |
| Lasso Without HP | 1.13                | -29.05              | 26.5625%                       | 23.0625%                        | 0.85  | 0.12                |
| Lasso With HP    | 1.12                | -29.05              | 26.5625%                       | 23.0625%                        | 0.85  | 0.12                |

# Apply Error on 50% of the Training Dataset

|                  | Before              |                     | Error in Anime Type            |                                 | After |                     |
|------------------|---------------------|---------------------|--------------------------------|---------------------------------|-------|---------------------|
|                  | MSE on test dataset | Var on test dataset | Pct of detected error as movie | Pct detected error as tv series | MSE   | Var on test dataset |
| Lasso Without HP | 1.13                | -27.79              | 26.125%                        | 23.5%                           | 0.89  | 0.16                |
| Lasso With HP    | 1.12                | -33.29              | 26.125%                        | 23.5%                           | 0.84  | 0.16                |

# Apply Error on 75% of the Training Dataset

|                         | Before              |                     | Error in Anime Type            |                                 | After |                     |
|-------------------------|---------------------|---------------------|--------------------------------|---------------------------------|-------|---------------------|
|                         | MSE on test dataset | Var on test dataset | Pct of detected error as movie | Pct detected error as tv series | MSE   | Var on test dataset |
| <b>Lasso Without HP</b> | 1.14                | -16.99              | 25.25%                         | 22%                             | 0.86  | 0.14                |
| <b>Lasso With HP</b>    | 1.14                | -16.99              | 25.25%                         | 22%                             | 0.90  | -0.04               |