

## ML MODELS WITH ACCURACY

### Model 1: Salary Prediction (Regression)

The model shows strong predictive performance, with a high  $R^2$  score ( $\sim 0.925$ ) indicating it explains about 92.5% of the variance in the target variable. The MAE of  $\sim 3816$  suggests the average prediction error is relatively low compared to the overall scale, indicating accurate and reliable predictions.

MAE: 3815.5655833333334

R2 Score: 0.9249553076428518

### Model 2: Attrition Prediction (Classification)

Accuracy: 0.9833333333333333

	precision	recall	f1-score	support
0	0.98	1.00	0.99	56
1	1.00	0.75	0.86	4
accuracy			0.98	60
macro avg	0.99	0.88	0.92	60
weighted avg	0.98	0.98	0.98	60

The model achieves very high accuracy (98.3%), indicating excellent overall classification performance. It performs extremely well on class 0, but the recall for class 1 is lower (0.75), suggesting some minority-class instances are missed despite perfect precision.