

When I look at the evaluation of models, it is seen that accuracy of the logistic regression model is 0.76, meaning that the model correctly predicted 76% of the test instances regarding the income level. When I look at the results for the decision tree model, I see that accuracy score is 0.82, meaning that it correctly predicted 82% of the test instances. However, there is a chance that the model might be overfitting the training data, so further consideration is necessary. Lastly, if we look at the scores for the random forest model, we see that accuracy score is 0.86, which is higher than scores of logistic regression and decision tree model. Hence, it managed to predict 86% of the test instances, showing that it is more successful and provides a better performance via reducing overfitting, especially compared to a one decision tree model. Therefore, I would choose random forest model with the highest accuracy according to model evaluation scores. Also, it is seen that random forest gives a better precision, recall and F1 score compared to other two models, showing that it's an effective model for discriminating different income levels.