OSCAR AWARD PREDICTION USING MACHINE LEARNING TECHNIQUES IN PYTHON
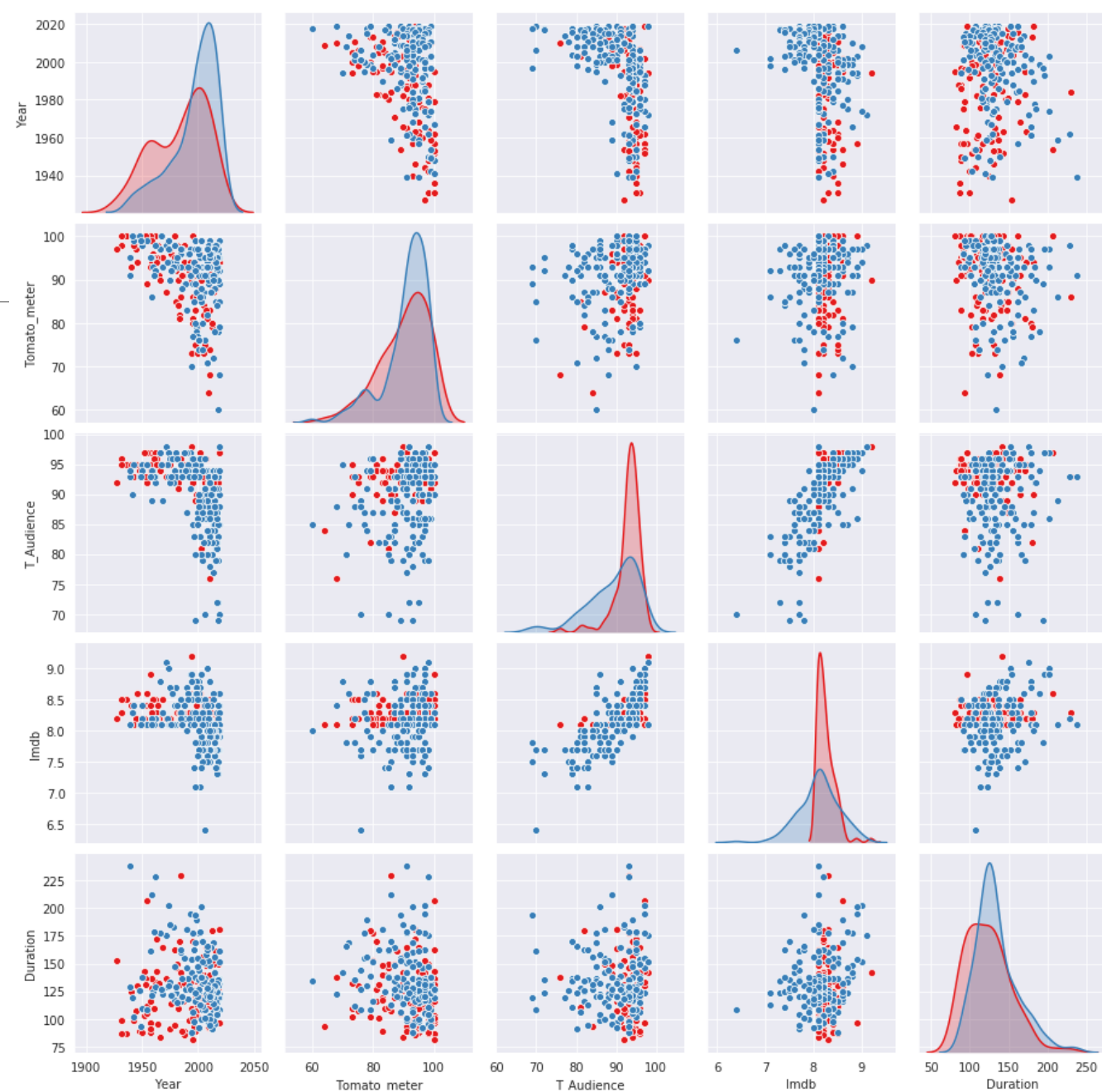
Riyas M. J.

Introduction

➢ The Oscar?

➢ The Shawshank Redemption Vs Titanic *a.k.a.* Critics Vs Audience.
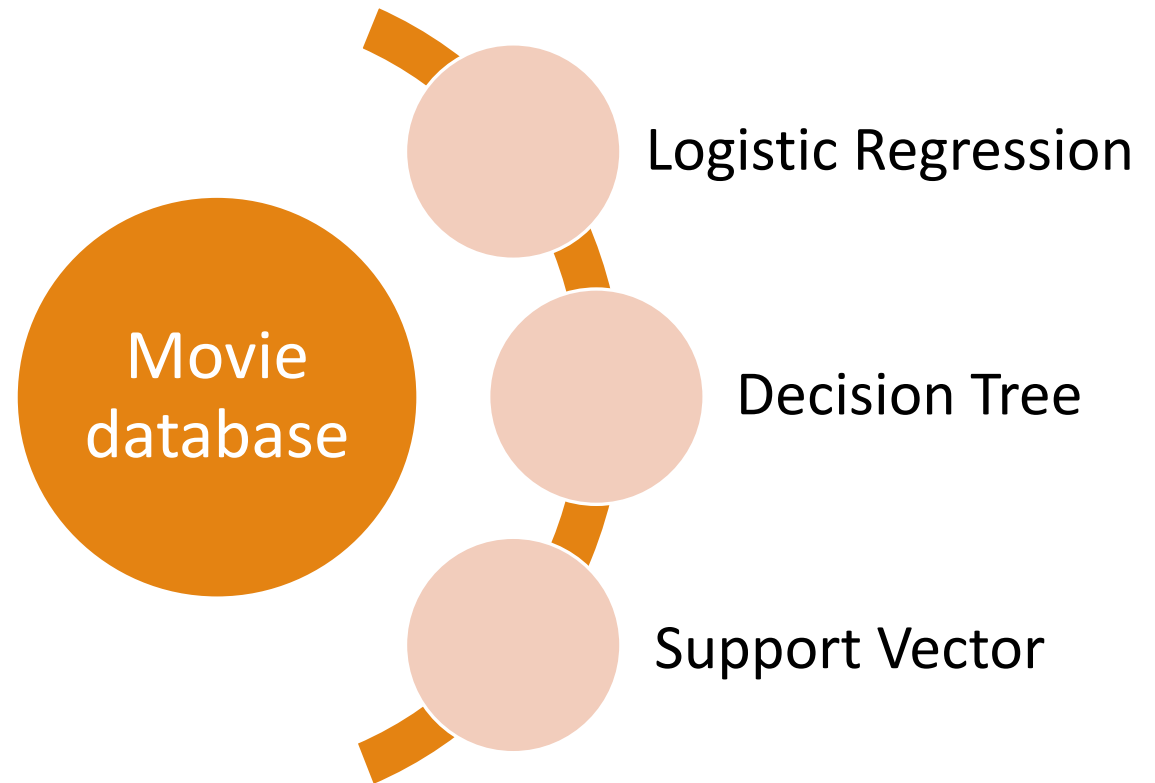
➢ Is Oscar predictable?

Introduction- Cont.

➤ Linear separation?

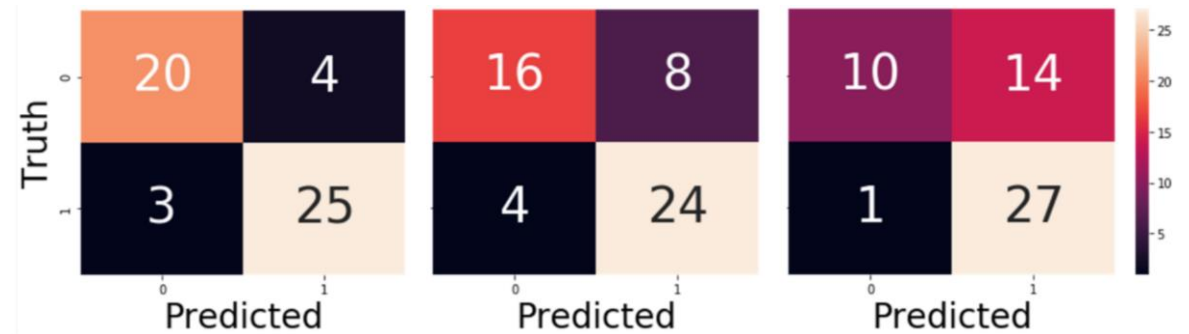➤ Predictable?

➤ Why machine learning?

Methodology

➢ Logical corrections.

➢ Unique tags to columns.

➢ Label encoding.

Movie database

Logistic Regression

Decision Tree

Support Vector

Results

➢ LR- Most accurate.

➢ LR- Reliable model.

➢ More type-I errors.

ERROR ESTIMATION PARAMETERS	MACHINE LEARNING TECHNIQUE		
	Logistic Regression	Decision Tree	SVM
Sensitivity	0.89	0.86	0.96
Specificity	0.83	0.67	0.42
Precision	0.86	0.75	0.66
F1 Score	0.88	0.80	0.78
Negative Predictive Value	0.87	0.83	0.91
Accuracy	0.87	0.77	0.71

Future scopes

➢ Expanding movie database by increasing samples.

➢ Expanding movie database by adding new parameters.

➢ Weighted analysis.