

OSCAR AWARD PREDICTION USING MACHINE LEARNING TECHNIQUES IN PYTHON

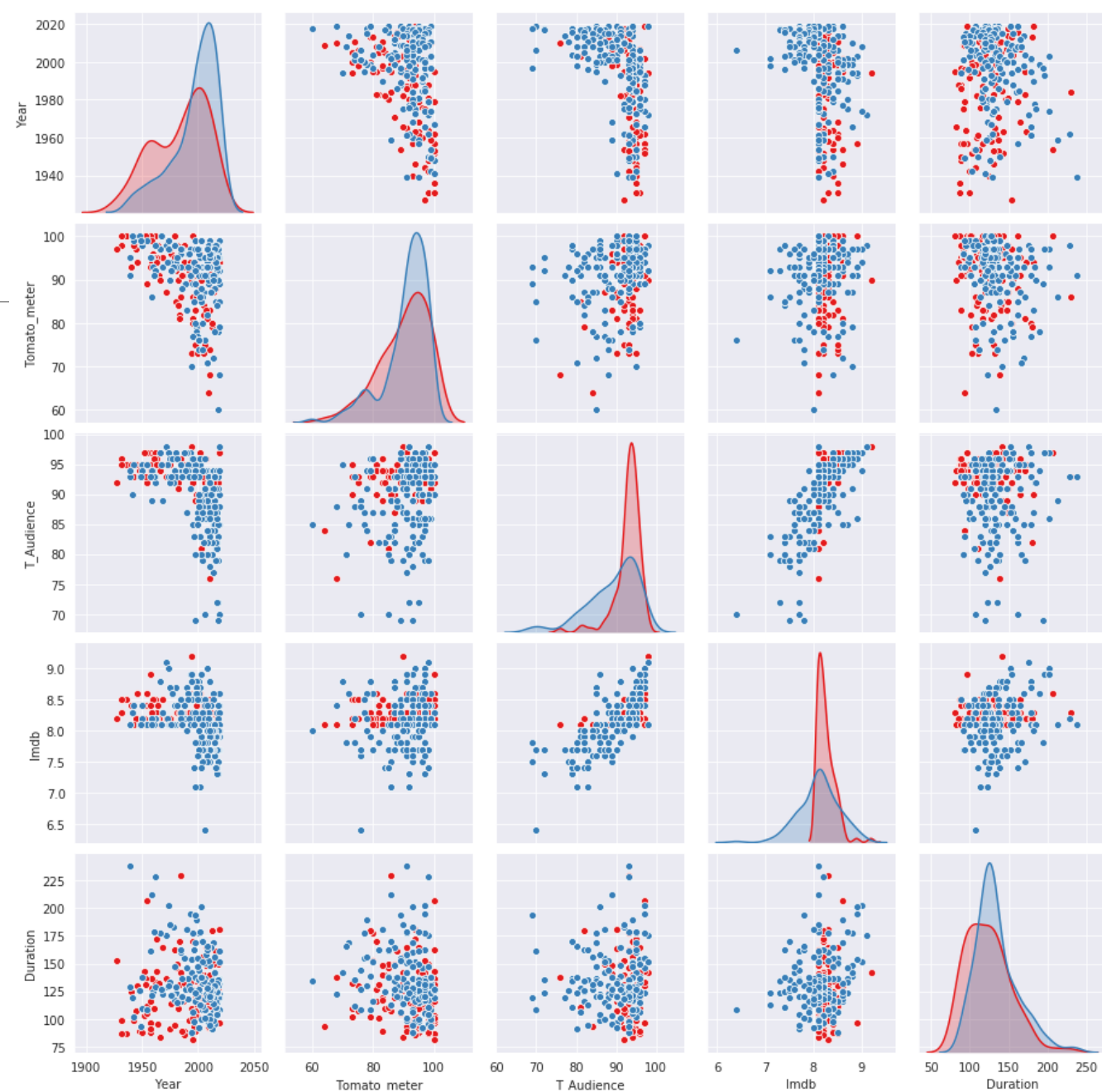
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Introduction

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

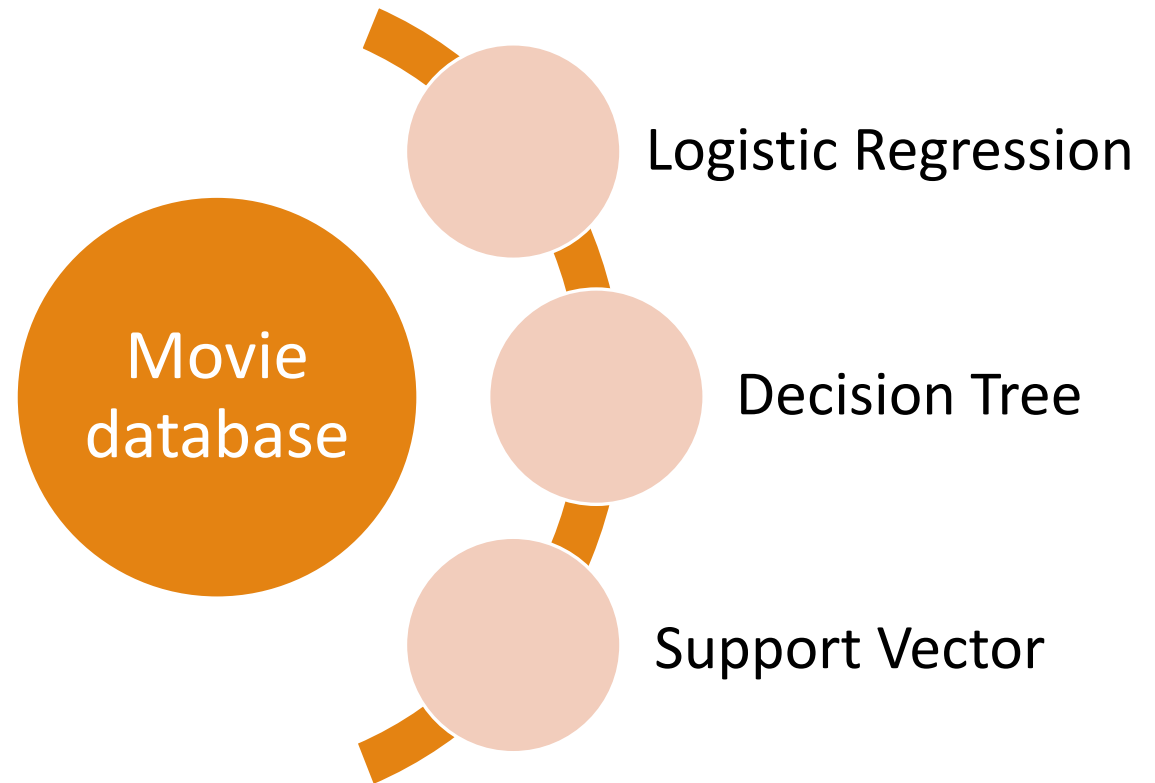
Introduction- Cont.

- Linear separation?
- Predictable?
- Why machine learning?



Methodology

- Logical corrections.
- Unique tags to columns.
- Label encoding.



Results

- LR- Most accurate.
- LR- Reliable model.
- More type-I errors.



| ERROR ESTIMATION | | MACHINE LEARNING TECHNIQUE | | |
|---------------------------|--|----------------------------|---------------|------|
| PARAMETERS | | 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.