

Model building:

Logistic regression score (logistic_model): 77.61194029850746

Decision tree score (tree_model): 75.0

Random forest score (forest_model): 76.49253731343283

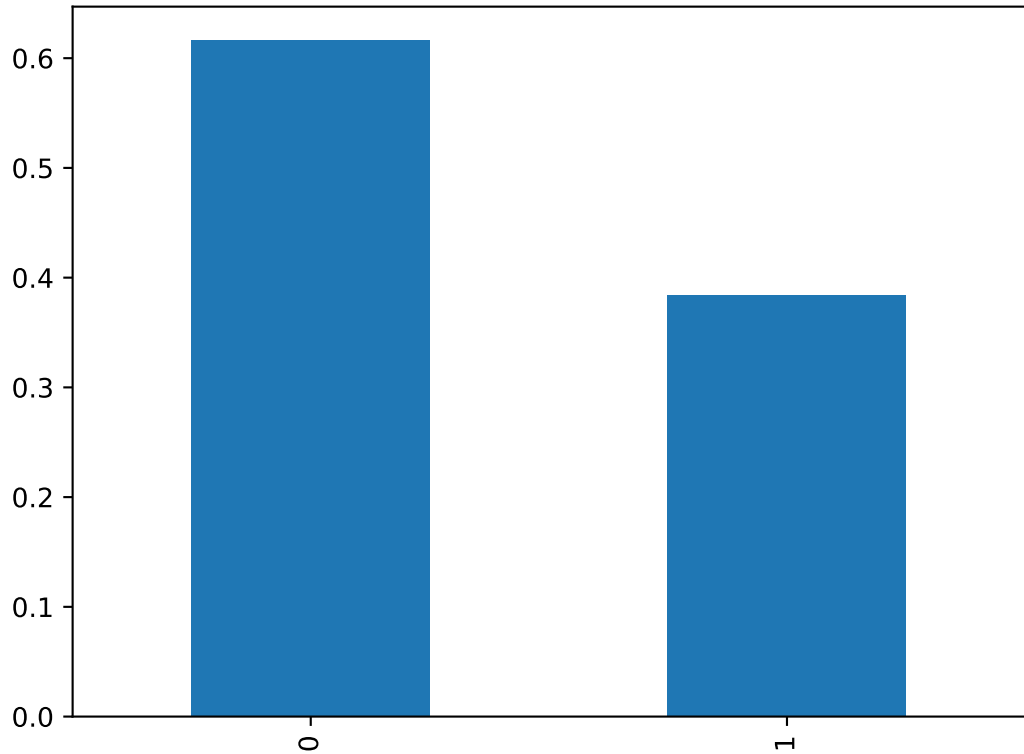
XGBoost score (xgb_model): 76.49253731343283

Model with highest accuracy is: logistic_model

Using this model to predict the test data:

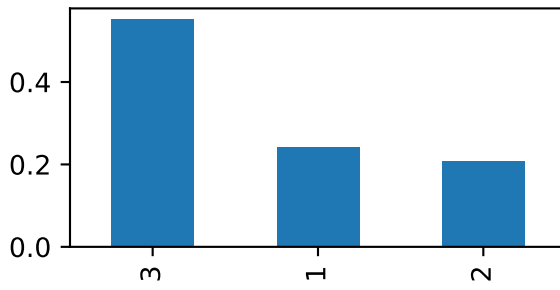
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Survived

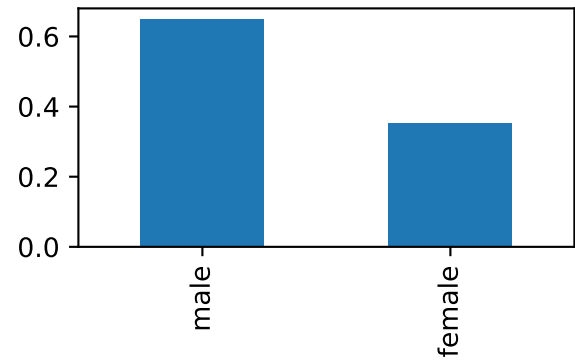


Analysing categorical variables

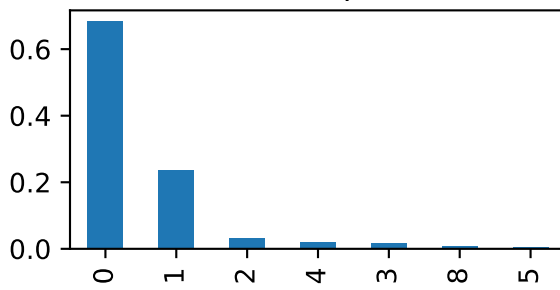
Pclass



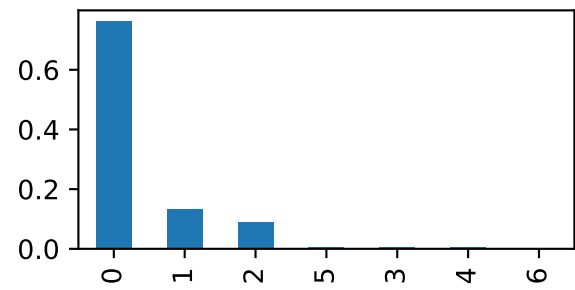
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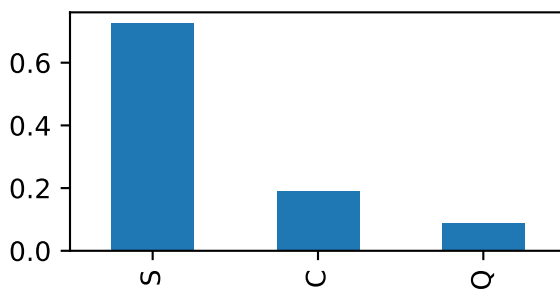
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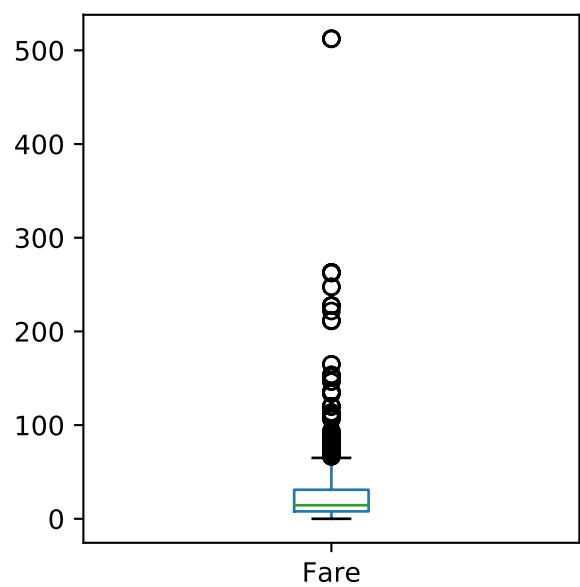
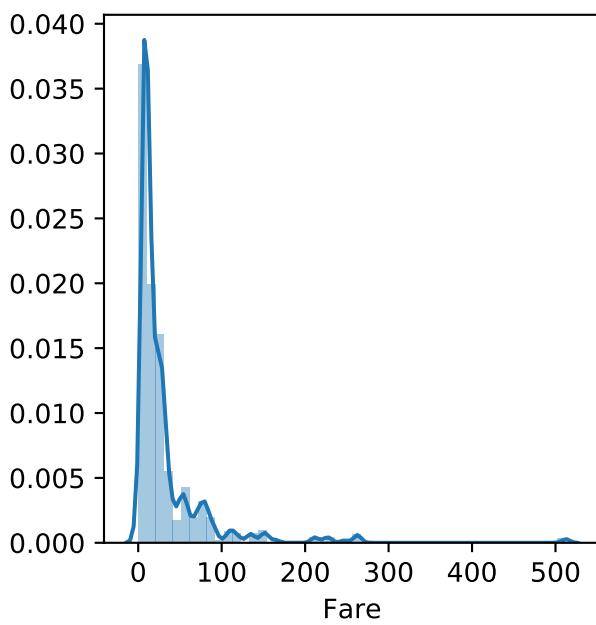
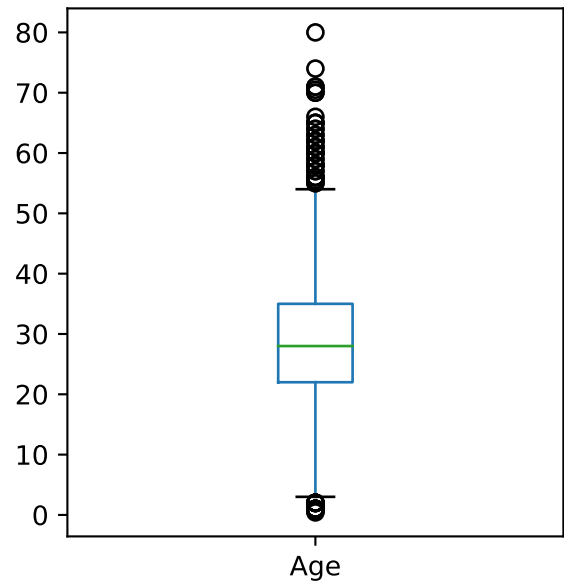
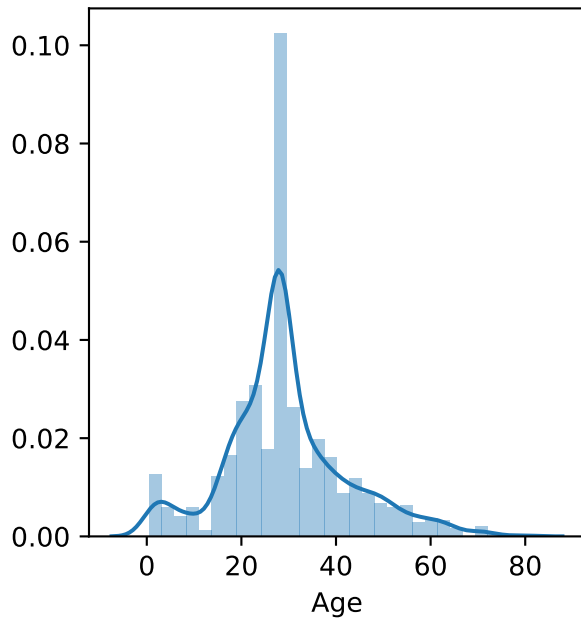
Parch



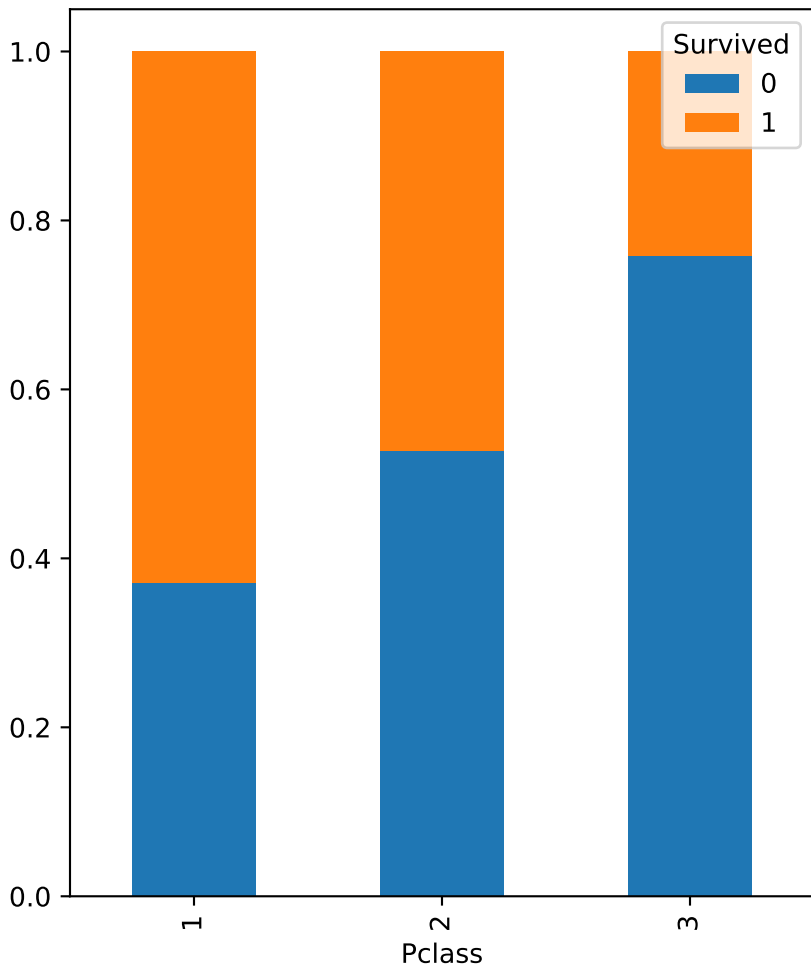
Embarked



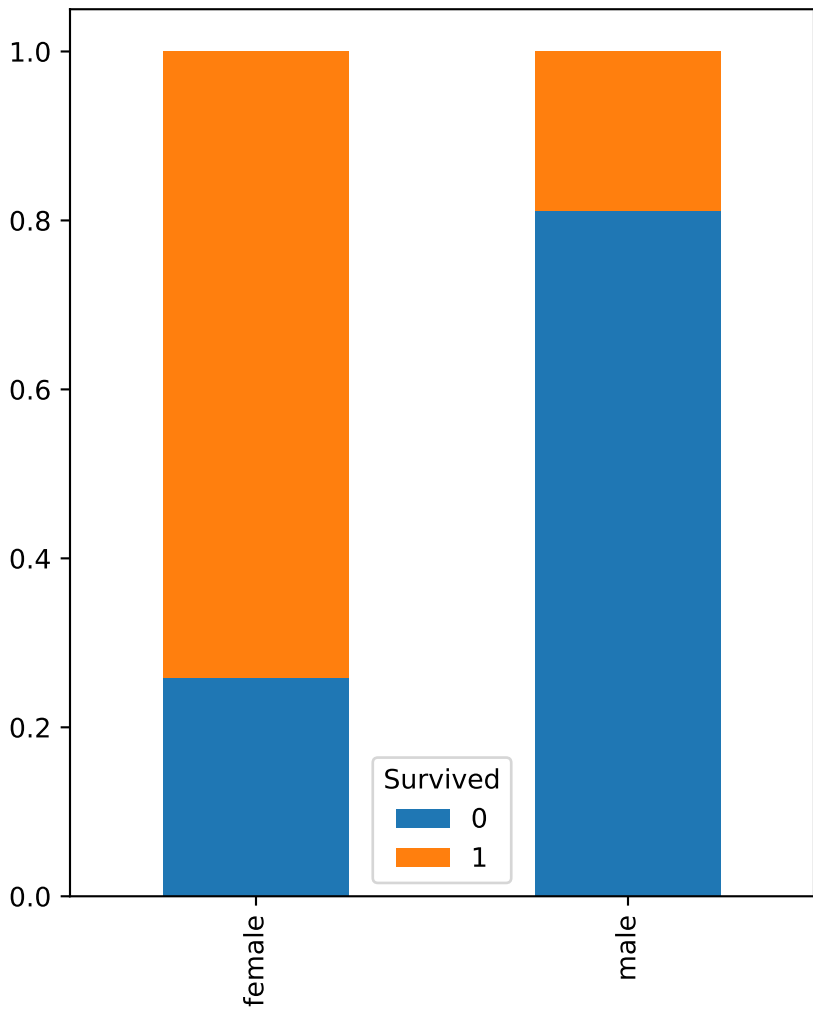
Analysing categorical variables



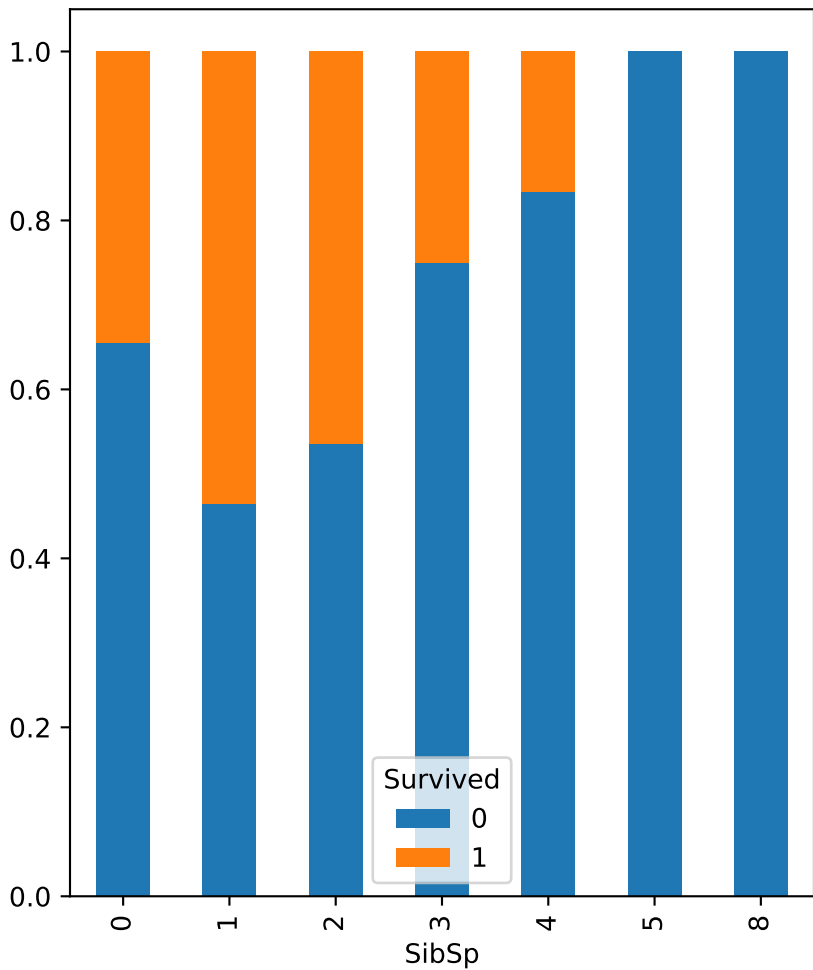
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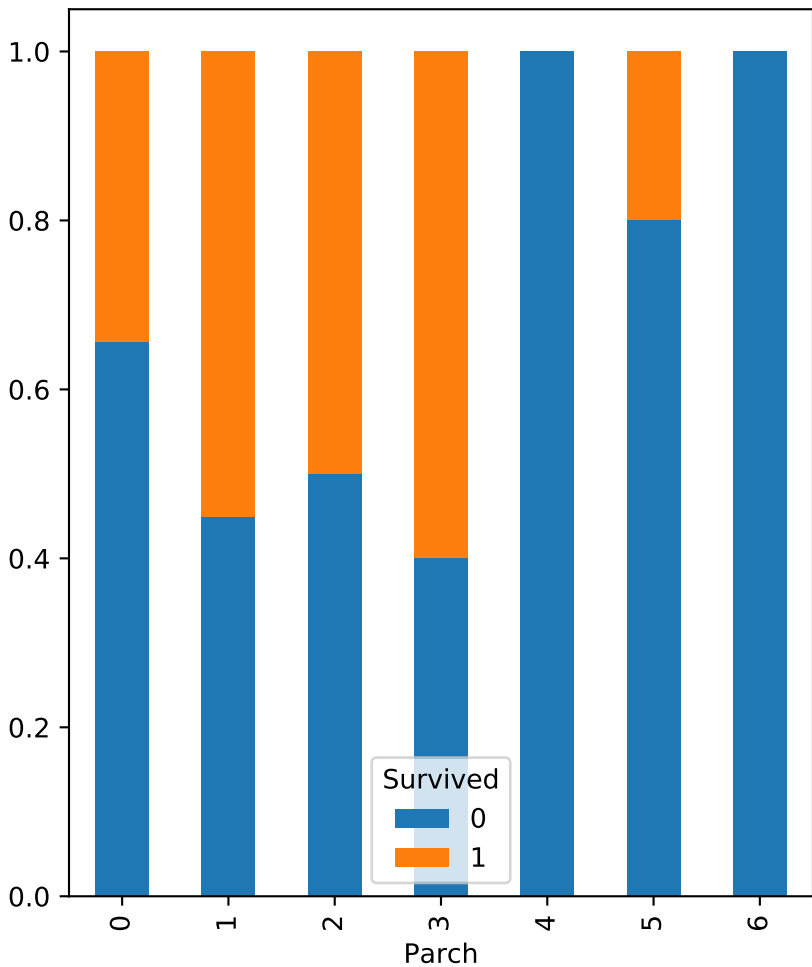
Sex



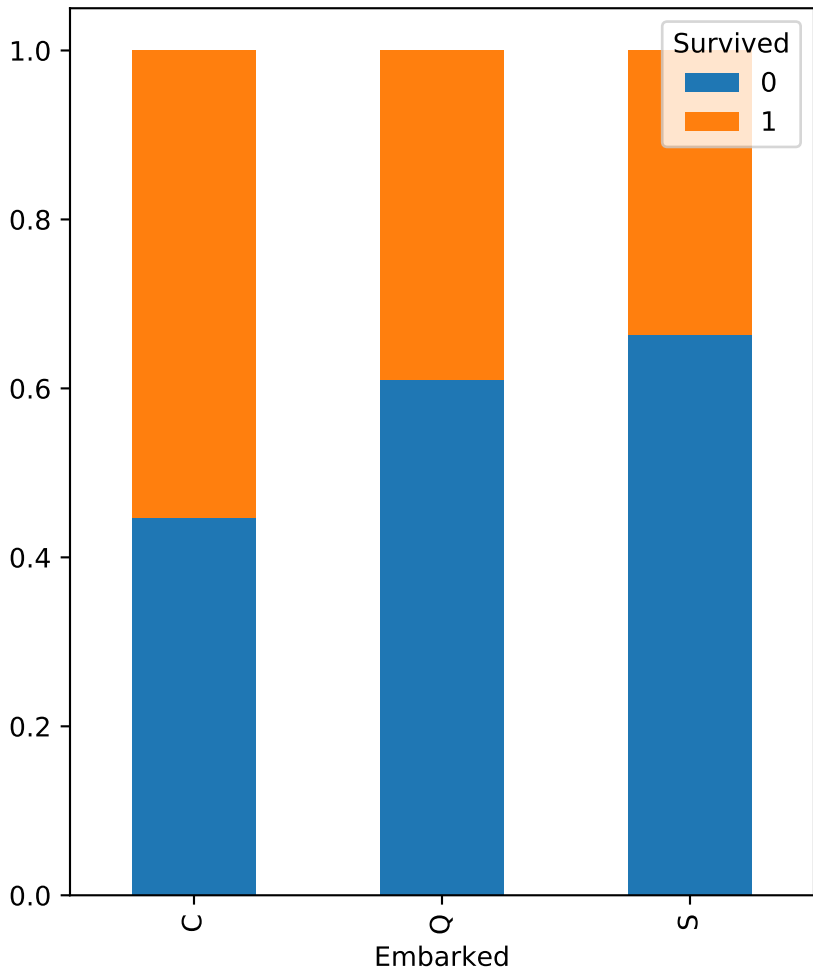
SibSp



Parch



Embarked



Analysing numerical variables vs decision variable

