* **Team Members**

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| **Names (Arabic)** | **IDs** |
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| **Dataset download link** | <https://www.kaggle.com/mkohli021/titanic-data> |
| **Number of samples** | 891 |
| **Number of classes** | 2 |
| **Number of samples per class** | Yes : 342 , No : 549 |
| **Names of classes** | Yes , No |
| **Dimensionality** | (891,12)=>training examples : 891 ,  features : 7, drop : 4  Target : 1 |
| **Names of features** | * pclass : Passenger Class * name : Name * sex : Gender * age : Age * sibsp : Number of Siblings/Spouses Aboard * parch : Number of Parents/Children Aboard * ticket : Ticket Number * fare : Passenger Fare * cabin : Cabin * embarked : Port of Embarkation (C = Cherbourg; Q = Queenstown; S = Southampton) |

* **Results**

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| **Classifier name** | **Parameters used** | **Accuracy score** |
| **Support Vector Machine** | SVC(kernel=’linear’) | 78.92% |
| **Naïve Bayes** |  | 80.26% |
| **Decision Tree** | tree.DecisionTreeClassifier(random\_state=0) | 76.68% |
| **Neural Networks** | MLPClassifier(hidden\_layer\_sizes = (100,5),activation="relu",solver='adam',alpha=0.0001,random\_state=0,shuffle=False) | 84.75% |

* **Which algorithm is the most suitable for your dataset?**

**Answer:**  Neural networks