# **Models Trained with their respective parameters and metrics.**

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| Model Name | Parameters and Hyper Parameters | Metrics |
| XGB + mean AU and emotions vector | max\_depth = 6, n\_estimators = 100,  booster = ‘gbtree’ | Acc: 75% |
| SVM + mean AU and emotions vector | kernel = ‘poly’, degree = 2,  C = 1, coef0 = 0.5,  gamma = ‘auto' | 54.17% |
| Decision Tree + mean AU and emotions vector | criterion = ‘gini’, Splitter = ‘best’,  Max\_depth = None | 62.50% |
| Random Forest + mean AU and emotions vector | n\_estimators = 1500, max\_leaf\_nodes = 10, max\_depth=50 | 66.77% |