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

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| Model Name | Parameters and Hyper Parameters | Metrics |
| ANN + TF-IDF  NON-BIASED SPLIT | def build\_ann(output\_units=1, learning\_rate=0.01):      model = Sequential()      model.add(Dense(units=16, activation='relu'))      model.add(Dense(units=8, activation='relu'))      model.add(Dense(units=output\_units, activation='sigmoid'))        adam\_optimizer = Adam(learning\_rate=learning\_rate)      model.compile(optimizer=adam\_optimizer,                    loss='binary\_crossentropy',                    metrics=['accuracy'])        return model | Acc: 79.17% |
| SVM + TF-IDF  NON-BIASED SPLIT | svm\_classifier = SVC(kernel='linear', C = 10) | 75% |
| ANN + Glove 100D  NON-BIASED SPLIT | Same as before | 70.83% |
| SGD + TF-IDF  NON-BIASED SPLIT | SGDClassifier() | 70.83% |
| Random Forest + TF-IDF  NON-BIASED SPLIT | RandomForestClassifier() | 66.67% |
| Logistic regression + TF-IDF  NON-BIASED SPLIT | LogisticRegression(max\_iter = 3000) | 66.67% |

Results in this modality maintain there accuracy regardless of using a non-biased split or a biased one, but non-biased splits were used to maintain the same split across modalities for multimodal testing later on.