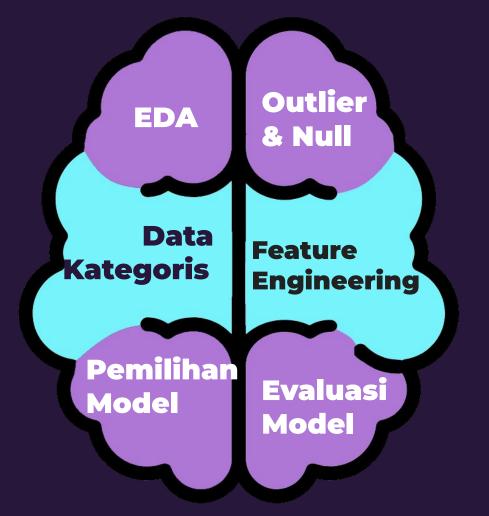


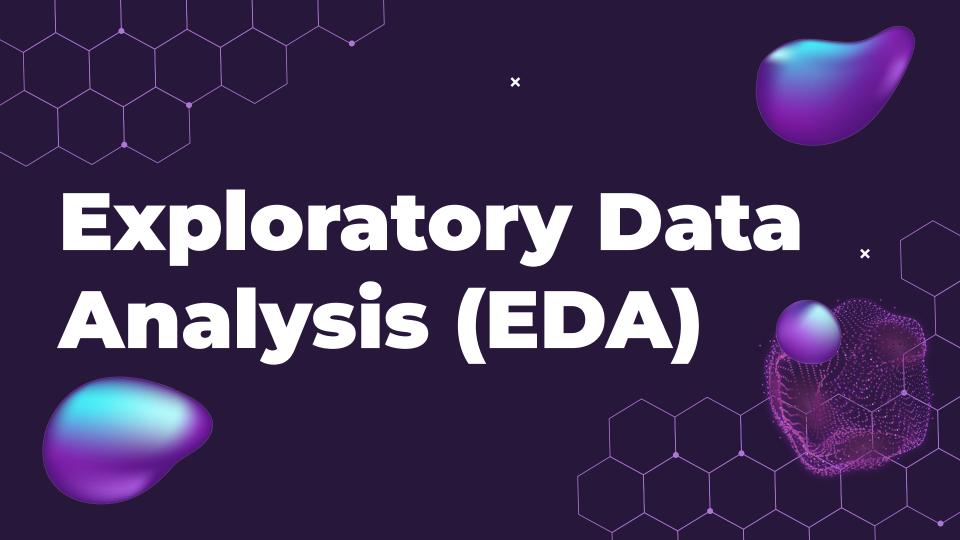
Bagus Cipta Pratama (23/516539/PA/22097) Hafid Sasayuda Ambardi (23/519841/PA/22308) Joseph Greffen Komala (23/519909/PA/22318)







- Melakukan EDA
- Munculnya outlier dan null values
- Pengelolaan data kategoris
- Feature engineering
- Memilih model yg efektif

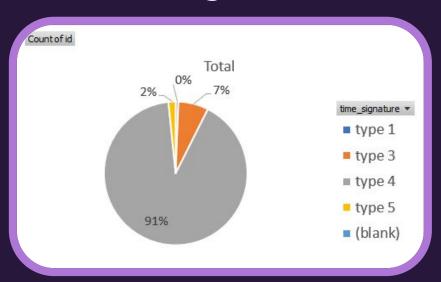


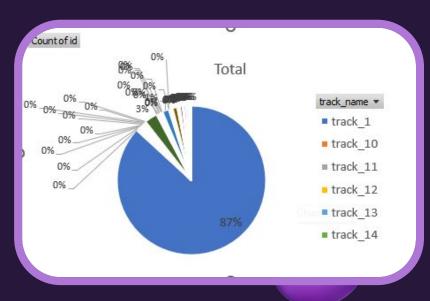
Exploratory Data Analysis (EDA)

Time Signature

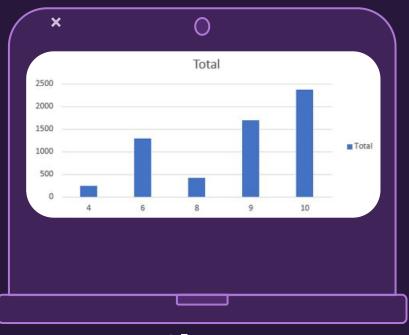
Artist Name 5265 dari 6052 Artis Unik

Track Name





Exploratory Data Analysis (EDA)



Class



Pre-Processing





Our Action

Outlier
Pembatasan
dengan IQR

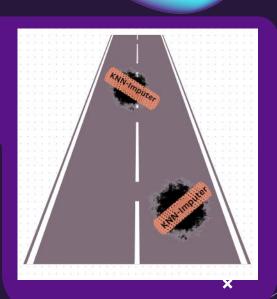
Artist

Mode
Ordinal
Encoding

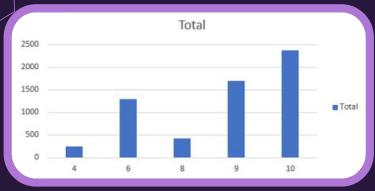
Null Values
KNN-Imputer

Artist

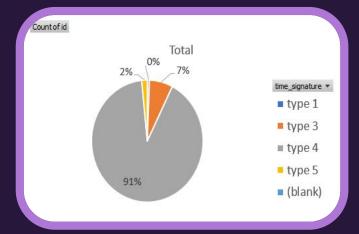
Name
Menghapus

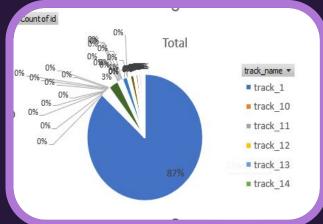


Before Pre-Processing



Class





Time Signature

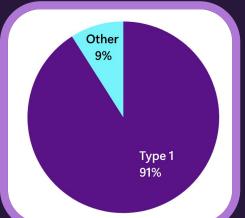
Track Name

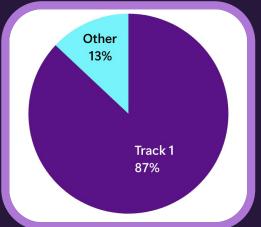
Our Action



Imbalanced

SMOTE-TOMEK links

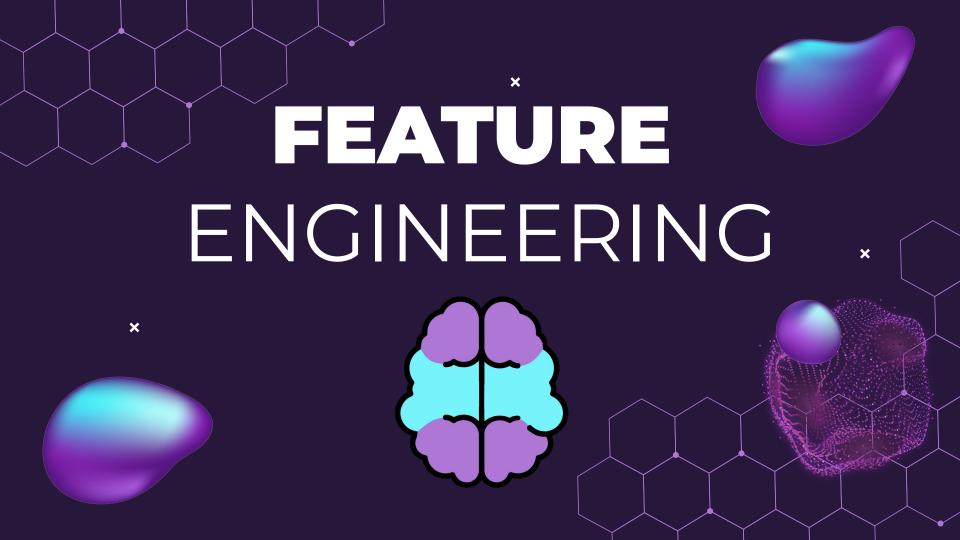




Track Name & Time Signature

Melakukan grouping sparse classes





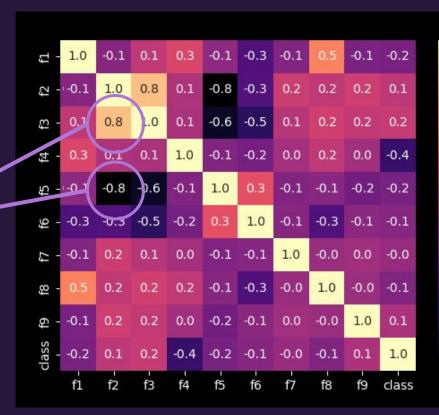
CORRELATION HEATMAP

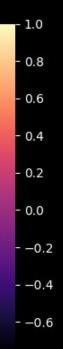


×

3.0

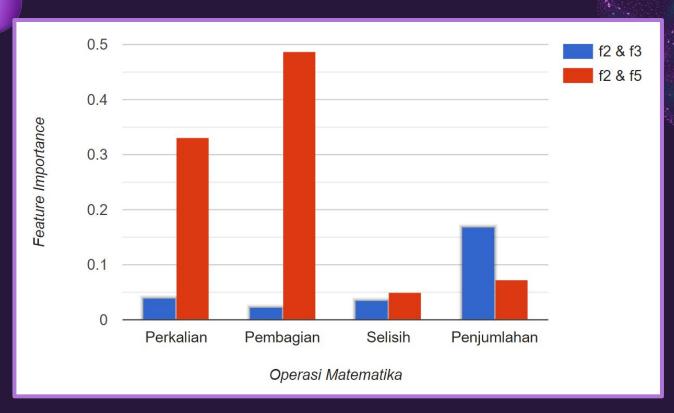
F2 F3 dan F2 F5 Korelasi Terbesar





FEATURE ENGINEERING

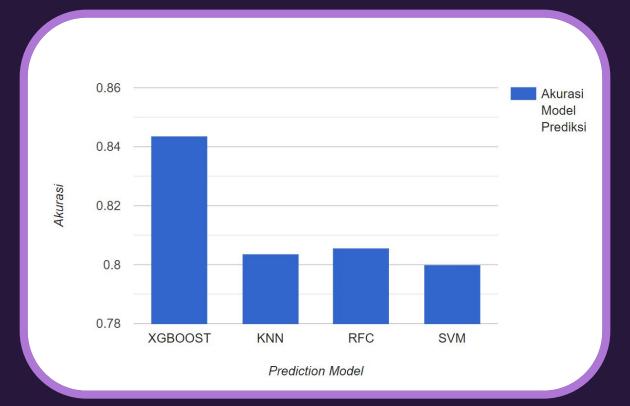
×



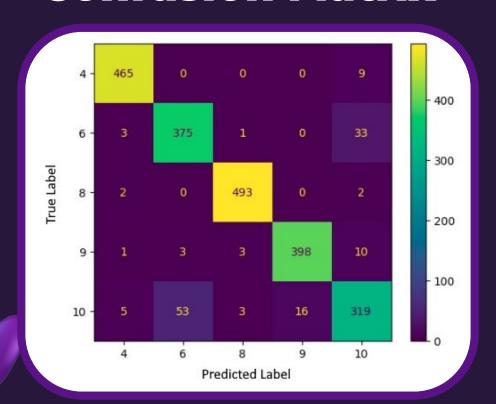


PREDICTED RESULTS

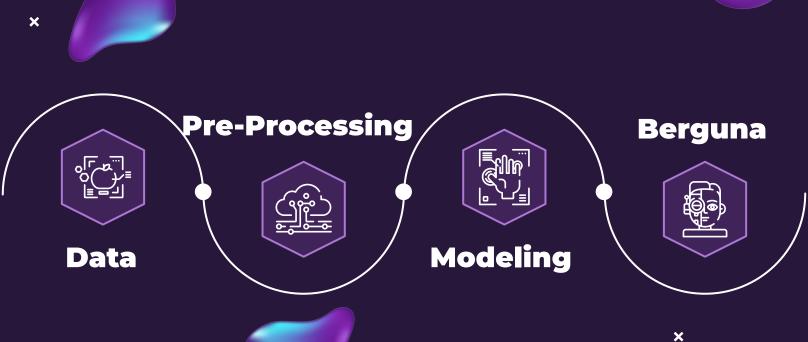
×



× Confusion Matrix



KESIMPULAN



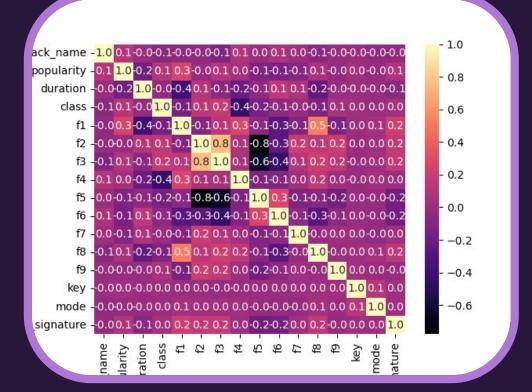


Grafik untuk QnA

*hanya di tampilkan saat dibutuhkan di sesi QnA



CORRELATION HEATMAP





BERBAGAI MODEL XGBOOST

	Private Accurac	Training Accura	Test Accuracy
Upsampling Ove	0.843	0.99933888	0.932794659064
Downsampling	0.85	0.999	0.94
Upsampling Unc	0.84	0.9225647573878	0.890642101422

Different Param

XGBoost A	XGBoost B	XGboost C
'subsample': 1	1	1
'n_estimators': 100	200	200
'max_depth': 6	6	6
'colsample_bytree': 0.75	1	1
'learning_rate': 0.01	0.1	0.1

EDA MENARIK

