

Cuprins



Scopul proiectului



Soluția propusă



Rezultate





SCOPUL PROIECTULUI





Predicția tipului de acorduri (major sau minor) de chitară si pian folosind metode de învățare supervizată.





SET DE DATE

SURSÅ Kaggle – Deep Contractor

B DATE 859 fișiere audio .wav

502 majore + 357 minore

C Setul a fost împărțit 70/30







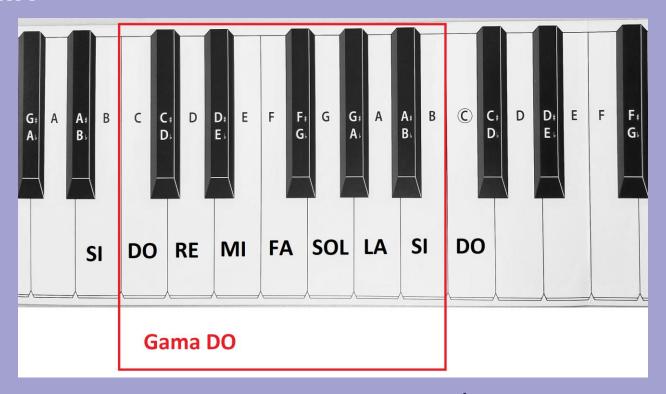






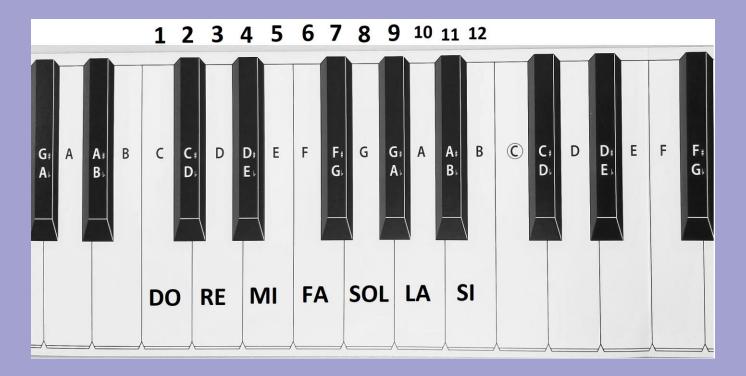


GAMA



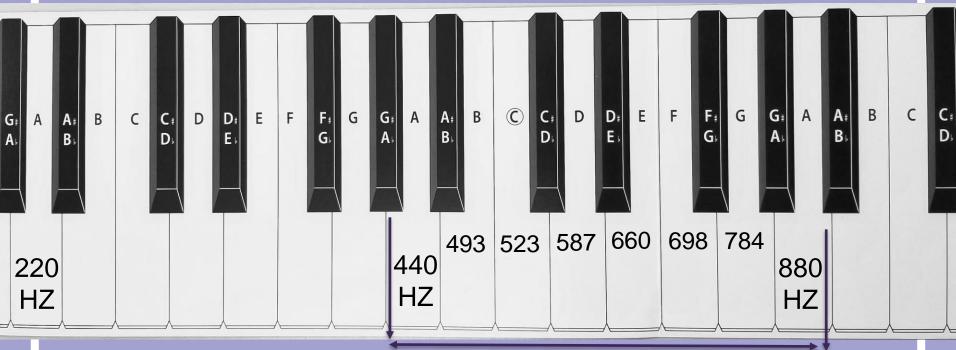


12 NOTE





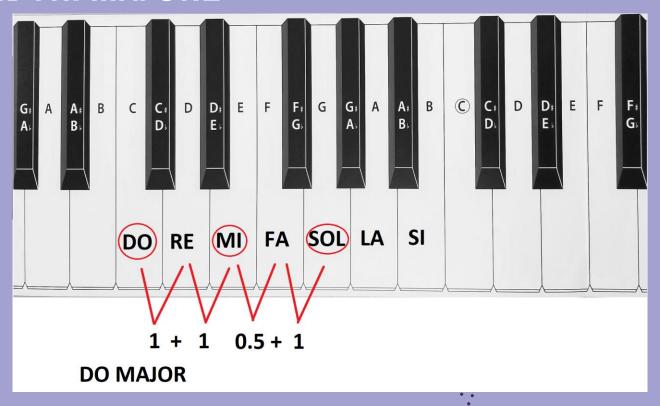
FRECVENȚA NOTELOR



12 intervale egale

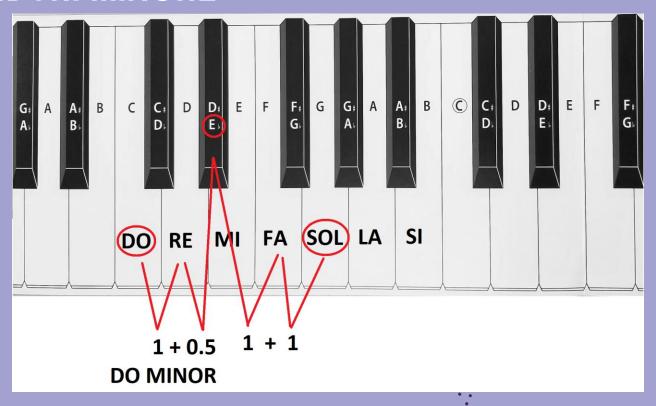


ACORDURI MAJORE





ACORDURI MINORE



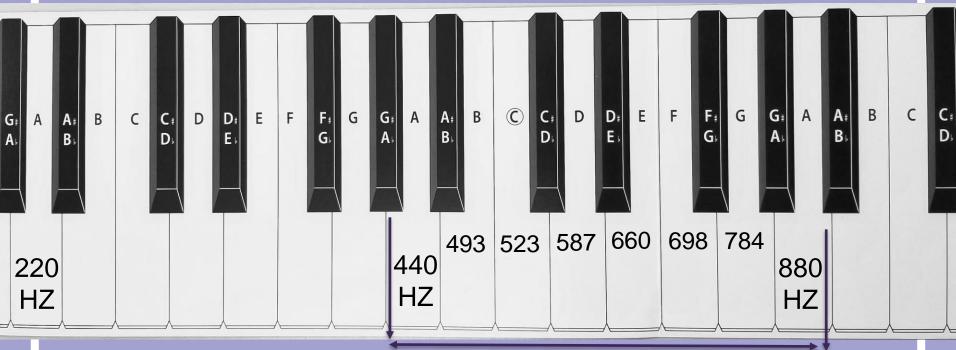
ANALIZA ÎN FRECVENȚĂ





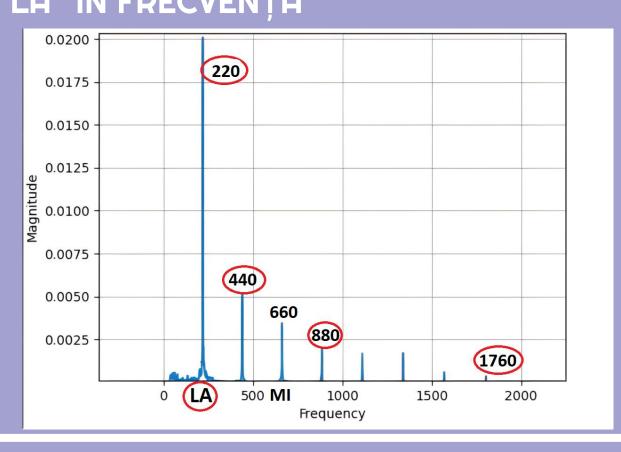


FRECVENȚA NOTELOR

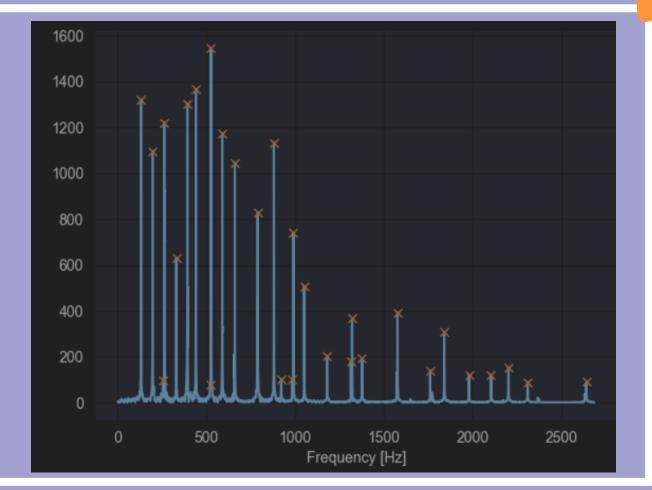


12 intervale egale

NOTA "LA" ÎN FRECVENȚĂ







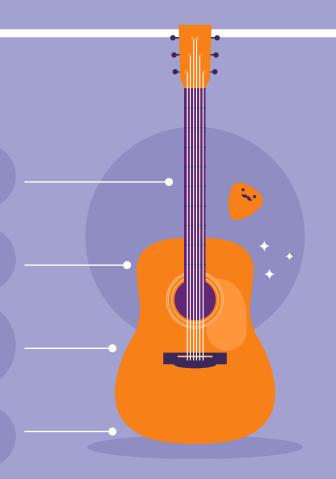
ANALIZA ARMONICĂ

min este 8 --> fiecare rând are cel puțin 8 valori armonice

max este 38 --> ultima coloană va fi "Armonica 38".

deoarece armonicele sunt ordonate, valorile lipsă vor crește cu fiecare coloană.

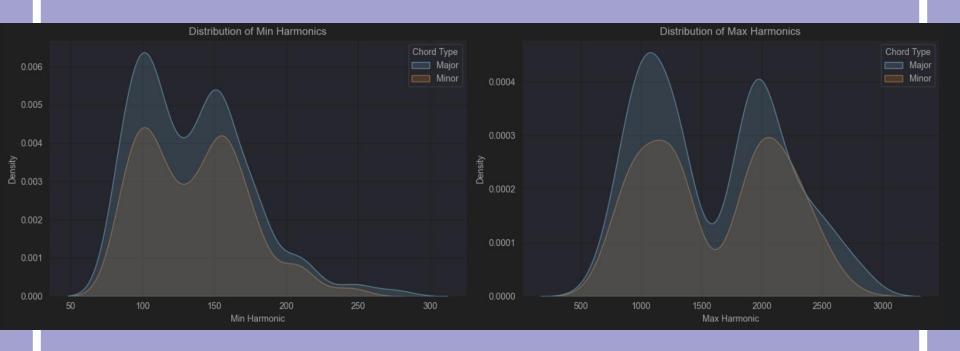
valoarea medie a numărului de armonice este 20





DISTRIBUȚIILE ARMONICELOR MINIME SI MAXIME







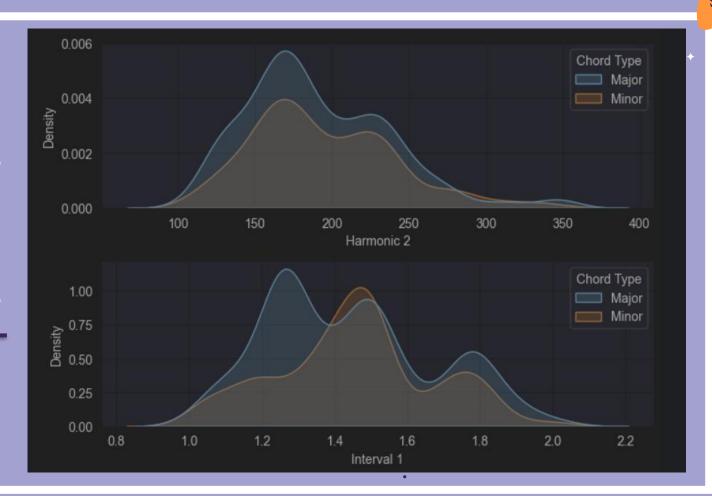
•••

DISTRIBUȚIE

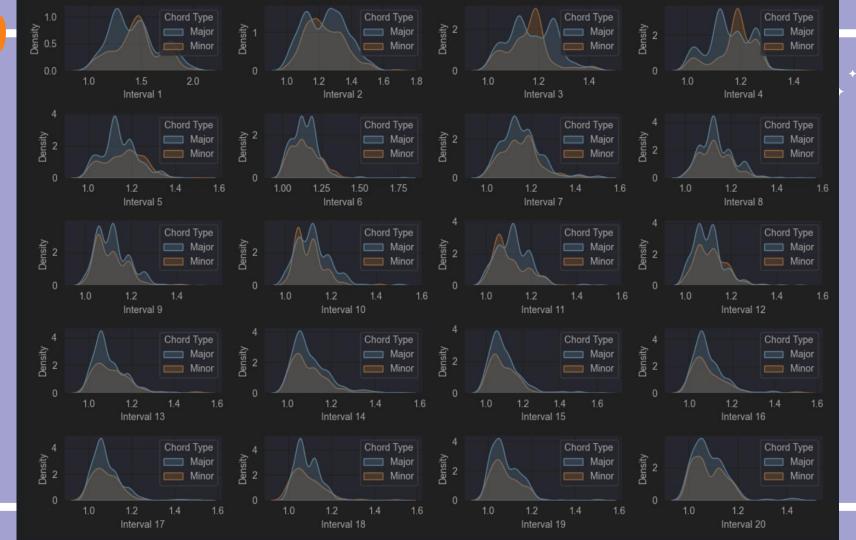
ARMONICA 2

ARMONICA 2

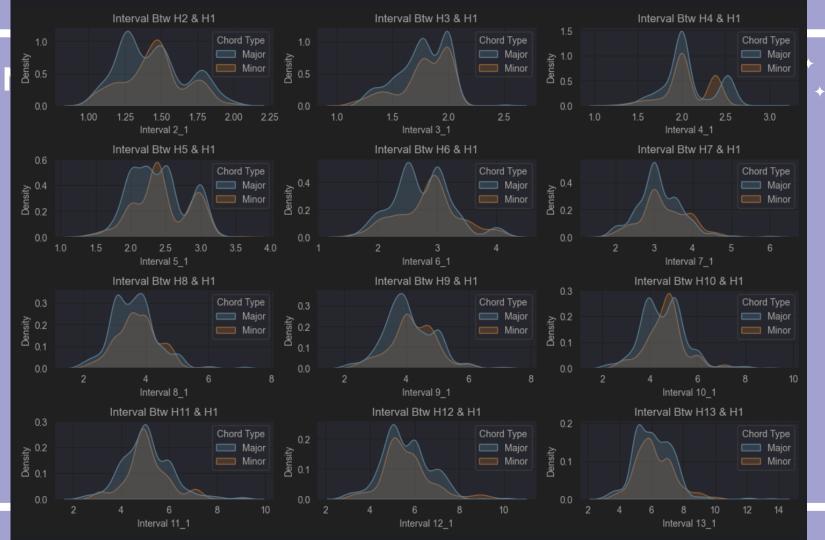
ARMONICA 1











DATELE PENRU MODEL



Interval 1

Interval 2

Interval 3

Interval 4

Interval 4_1

Interval 5_1

Interval 6_1



ALGORITMI UTILIZAŢI





REZULTATE







0.93

93	13
6	146

Random Forest

0.91

93	13
10	142

KNeighbors Classifier

0.83

87	19
24	128

Decision Tree

0.91

93	13
11	141



MULŢUMESC!

ÎNTREBĂRI?

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