Best Artworks of all times..

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Abstract:
Painters' artworks as the years progress might lost their clarity and colors and will be hard to restore it! So, The purpose of this project is to restore artworks and increase the clarity of it, in addition predicting genre of each artwork, as the last step of my project i decided to add colors to the artworks to renew it

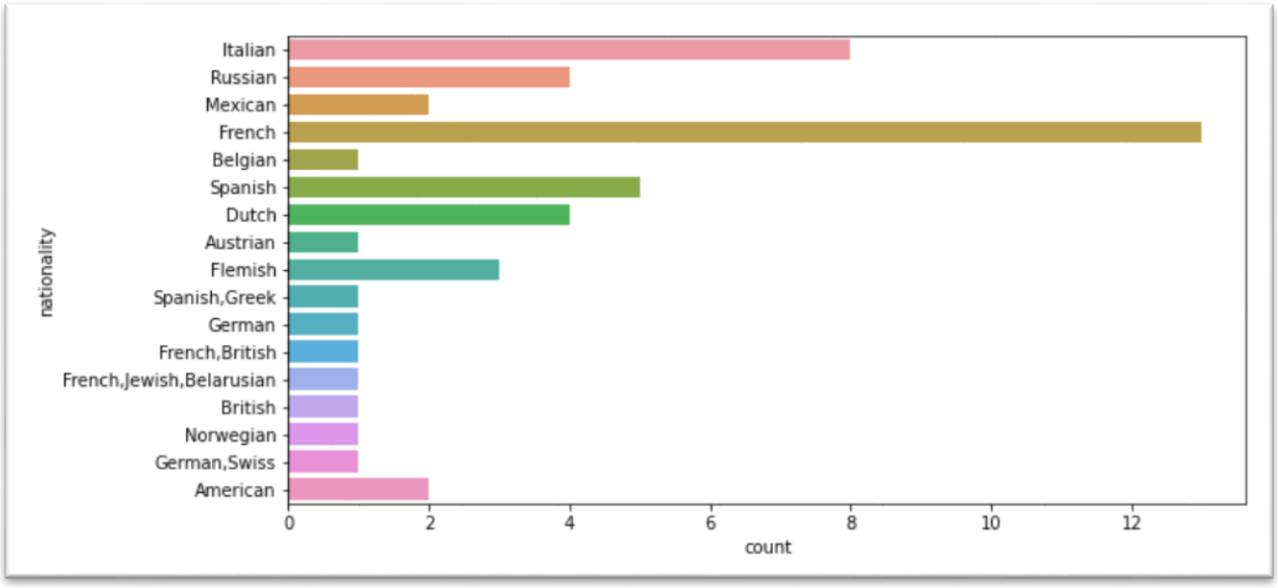
Design:
The deep learning project's progress will follow this way. First, analysis the dataset and visualize it, Then using deep learning to predict the genre of random artwork, Also denoising artworks with the use of Neural network, lastly, renew artworks by adding colors to it.

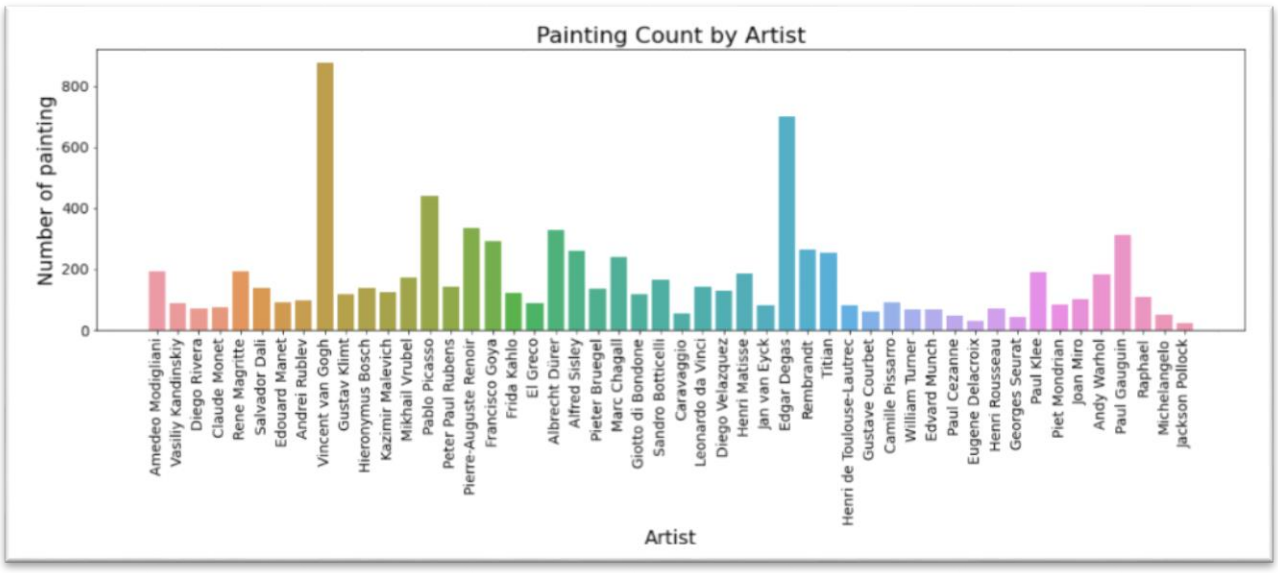
Data:
The dataset contains an artists file with 50 artists names, and a file with 8000 images for artists artworks.

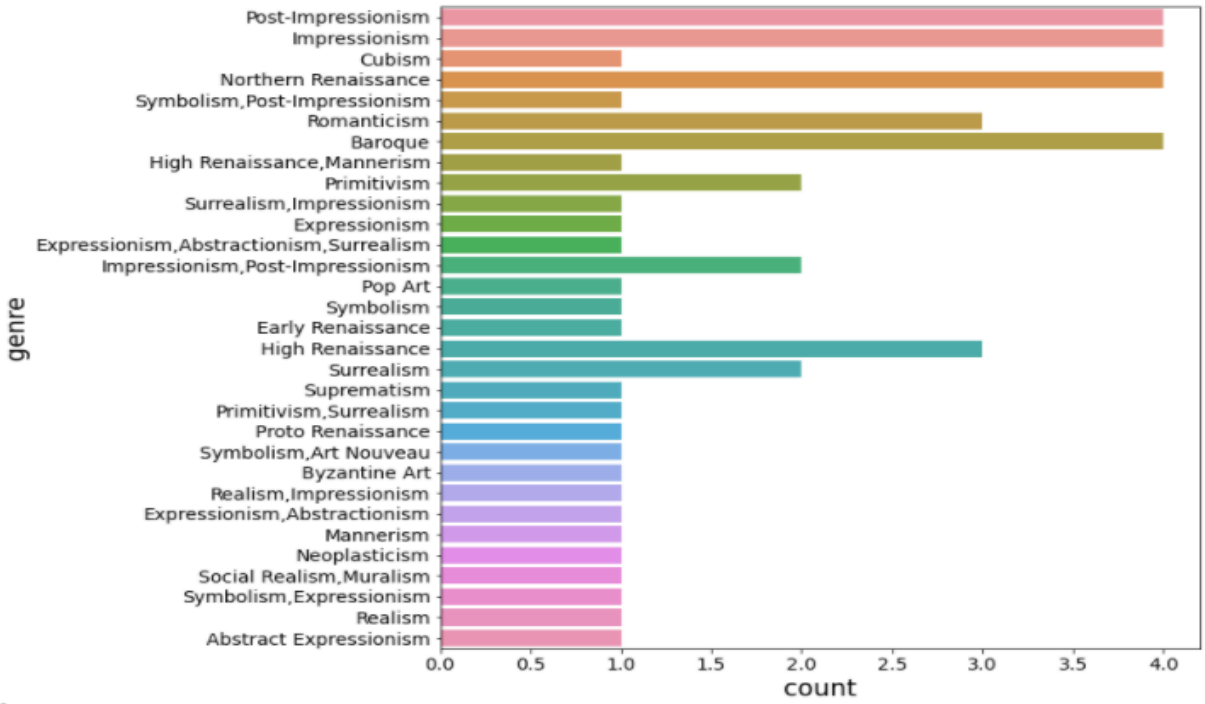
Algorithms:
- Neural network(NN)
- Convolutional Neural Network(CNN)

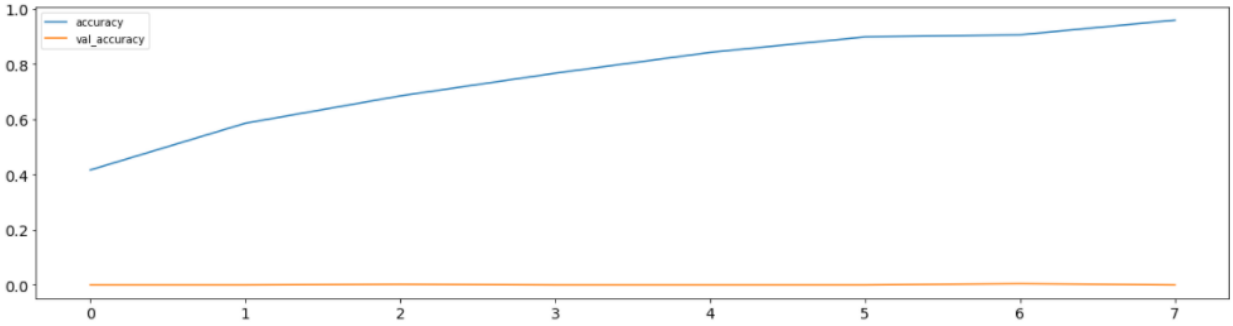
Tools:
- Technologies : Python, Jupyter Notebook
- Libraires : Pandas, Numpy , Seaborn , KERAS, TENSORFLOW

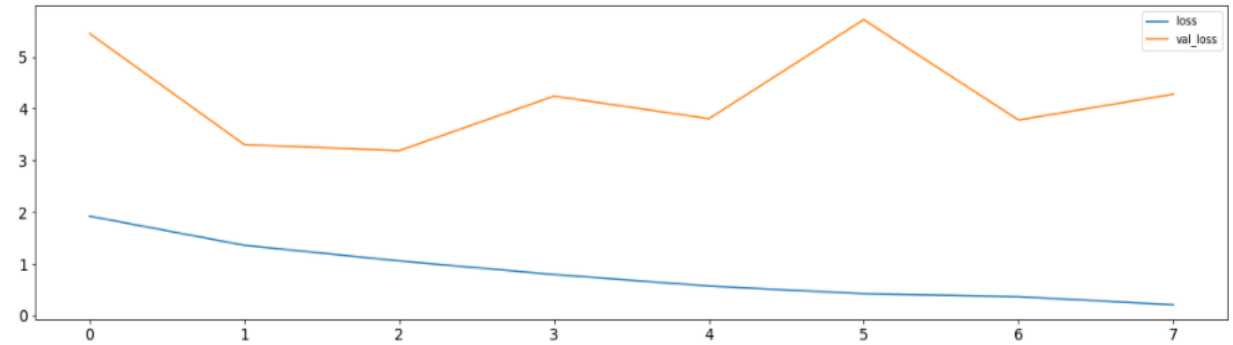
Communication:



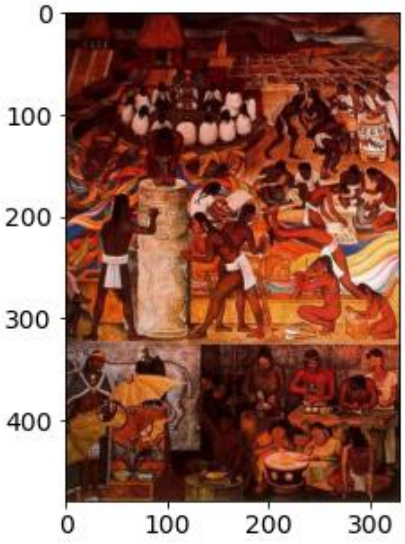
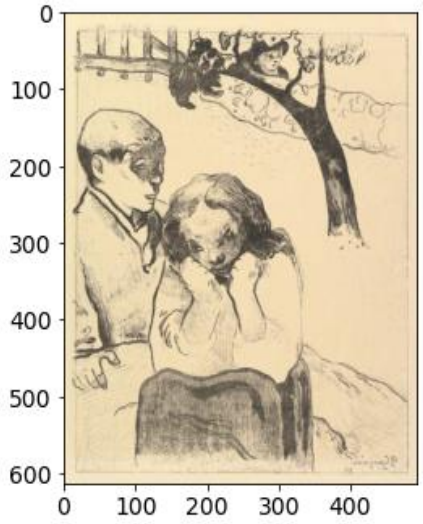
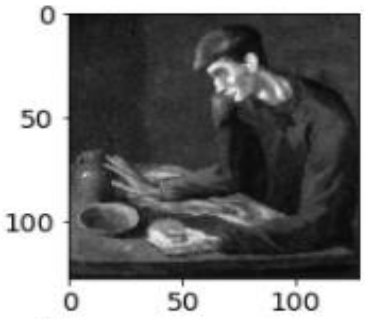
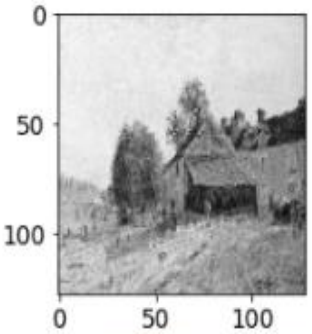
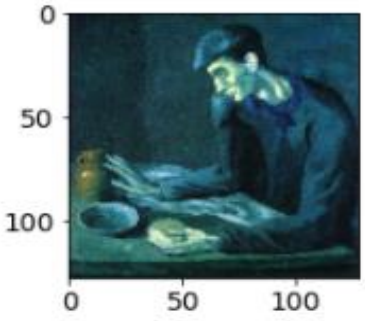
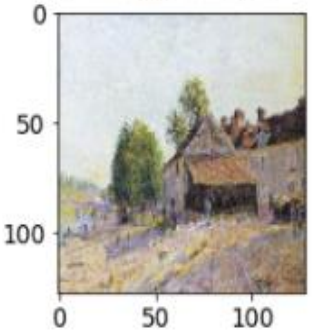
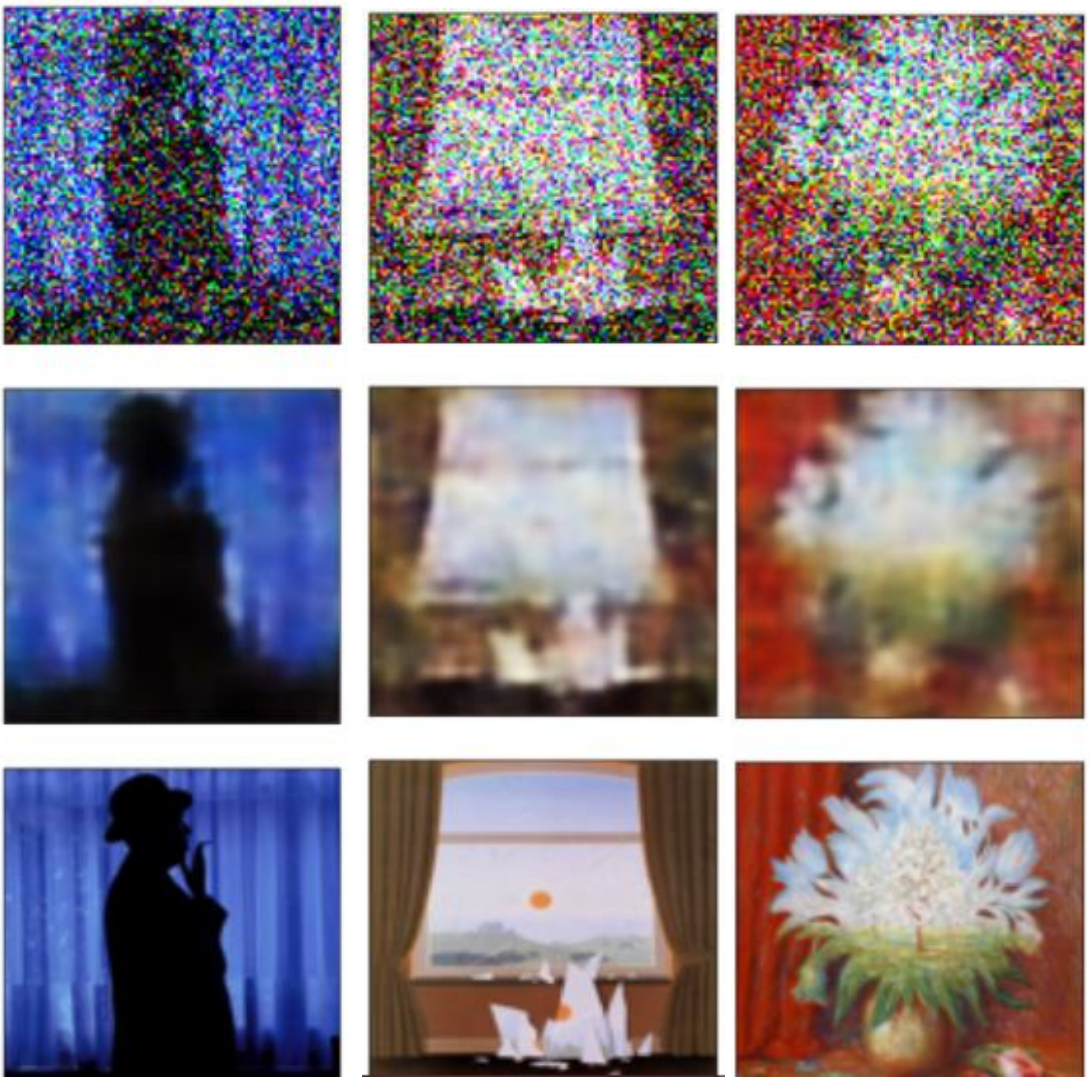



Post-Impressionism
Impressionism
Cubism
Northern Renaissance
Symbolism,Post-Impressionism
Romanticism
Baroque
High Renaissance,Mannerism
Primitivism
Surrealism,Impressionism
Expressionism
Expressionism,Abstractionism,Surrealism
Impressionism,Post-Impressionism
Pop Art
Symbolism
Early Renaissance
High Renaissance
Surrealism
Suprematism
Primitivism,Surrealism
Proto Renaissance
Symbolism,Art Nouveau
Byzantine Art
Realism,Impressionism
Expressionism,Abstractionism
Mannerism
Neoplasticism
Social Realism,Muralism
Symbolism,Expressionism
Realism
Abstract Expressionism
genre
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
count


accuracy
val_accuracy
1.0 0.8 0.6 0.4 0.2 0.0
0 1 2 3 4 5 6 7


loss
val_loss
5 4 3 2 1 0
0 1 2 3 4 5 6 7

Predicted current = Primitivism,Surrealism
Prediction probability = 50.72 %



Predicted current = Expressionism,Abstractionism
Prediction probability = 76.46 %