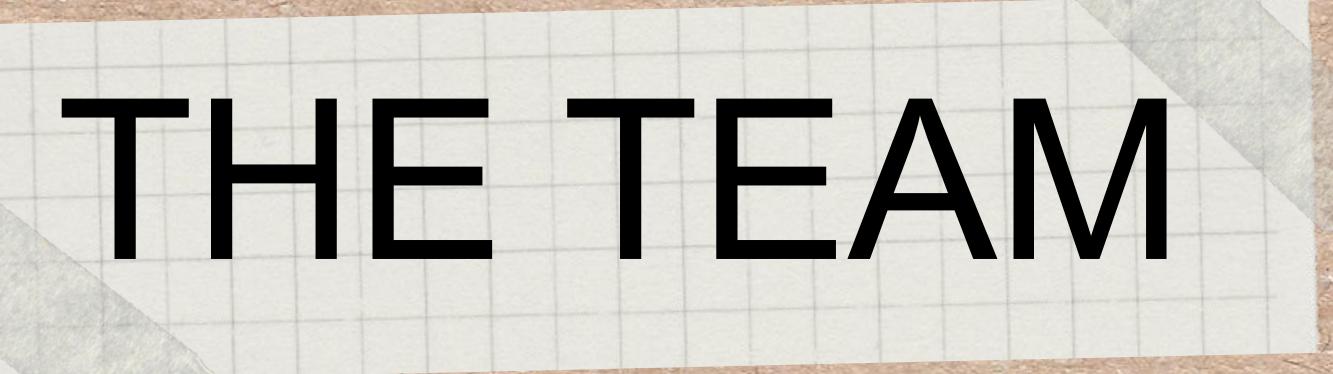


DoodleIT

Convert images into doodles



THE TEAM



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Faria Ahmed

190041218



Tasfia Tasneem Annesha

190041220

Rafi Hassan Chowdhury

190041234

Introduction

DOODLING

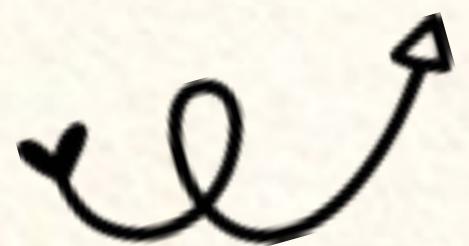
Doodles are simple drawings often created absentmindedly or impulsively, have a unique charm and appeal that can transform an ordinary image into a fun and whimsical work of art.

GAN

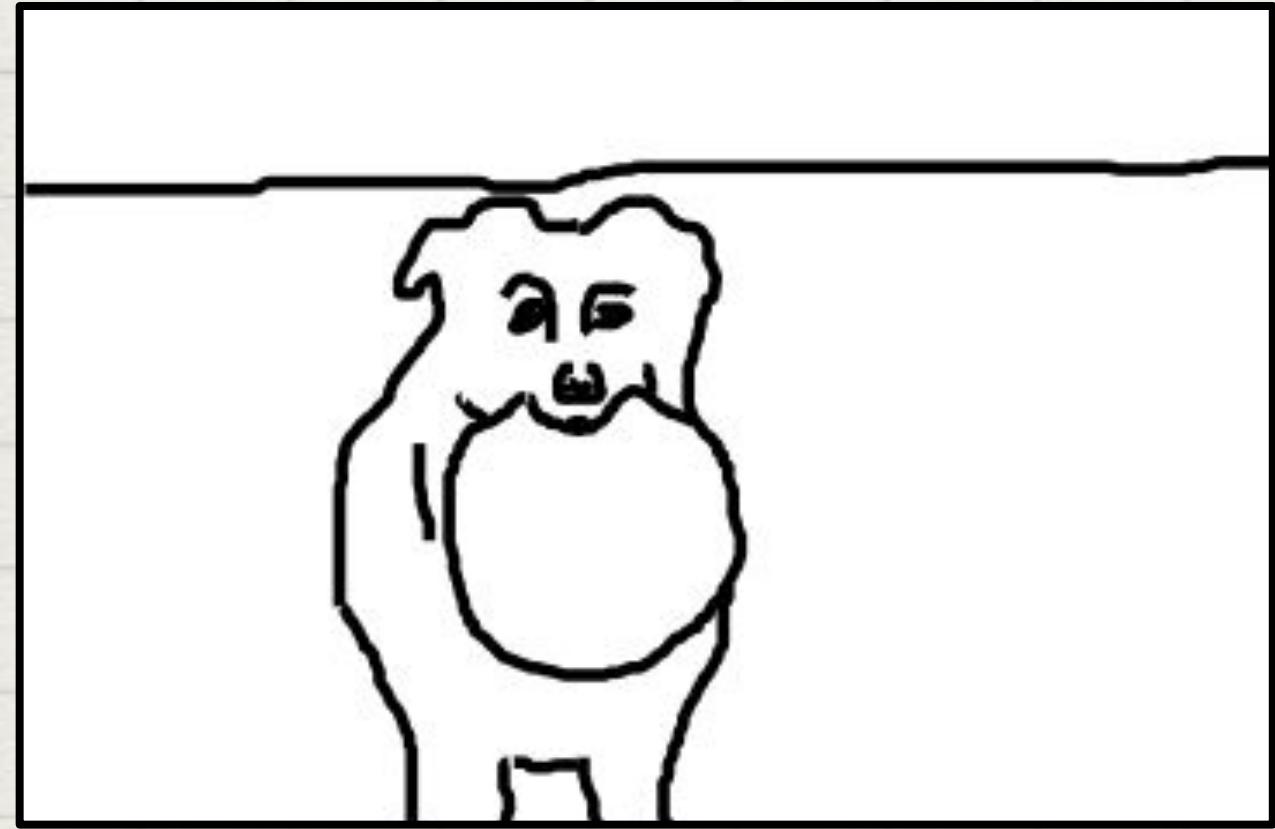
Let's think of the Generator as an artist, and a Discriminator as an art critic.

Motivation

*In this era of digital art,
converting images to doodles has
emerged as a fun and innovative
technique that is sure to delight
and inspire artists and
enthusiasts alike.*



Problem Statement



Papers & Datasets

Photo-Sketching: Inferring Contour Drawings from Images

- 1000 real image
- 5 drawing images for each real image

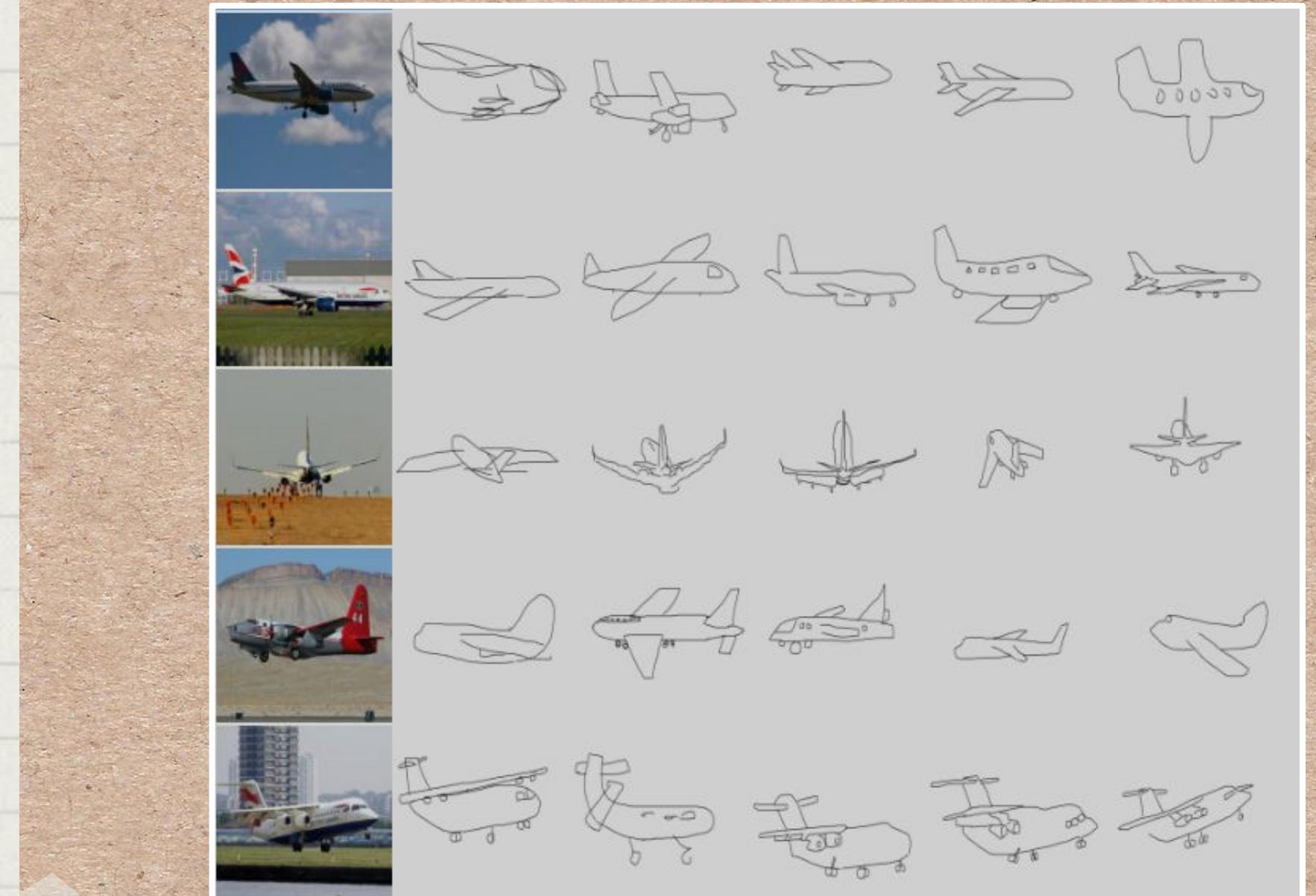


Papers & Datasets



The Sketchy Database: Learning to Retrieve Badly Drawn Bunnies

- 125 categories
- 75,471 sketches of 12,500 objects
- 5 drawing images for each real image



Design Project vs ML Project

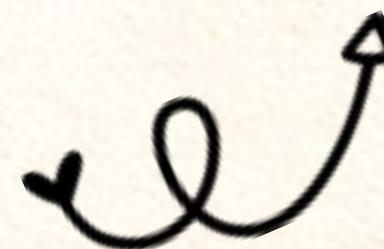


Design Project

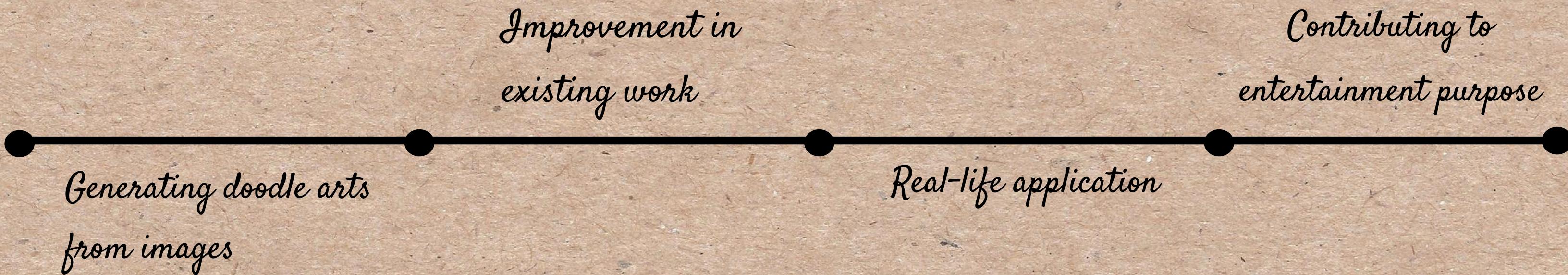
- Design Project:
Medical Image Reconstruction
- Focused Architecture:
GAN & Variants of GAN

ML Project

- Design Project:
Converting Image to Doodle
- Focused Architecture:
GAN architecture



Possible outcomes



References

1. Li, M., Lin, Z., Mech, R., Yumer, E. and Ramanan, D., 2019, January. Photo-sketching: Inferring contour drawings from images. In *2019 IEEE Winter Conference on Applications of Computer Vision (WACV)* (pp. 1403-1412). IEEE.
2. Chan C, Durand F, Isola P. Learning to generate line drawings that convey geometry and semantics. InProceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition 2022 (pp. 7915-7925).

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THANK

you

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