

# Project-4

# Comic Book Generation

# The Fallen Unicorn Girl

## Project Overview

We aim to create your own comic book page with your own characters by using:

- Dreambooth
- LoRA



The girl wakes up.



She is having fun with her friend.



Her friend turns to be red-eye witch In all of a sudden!!!!



The girl has been cursed to be a ugly dragon

# Project Overview

It is kinda few shot learning to finetune your model with only a few images.

You may go for your own lovely anime/movie characters for this project.



# Technique 1 - Dreambooth

Learning a new concept with Dreambooth.



Input images



in the Acropolis



swimming



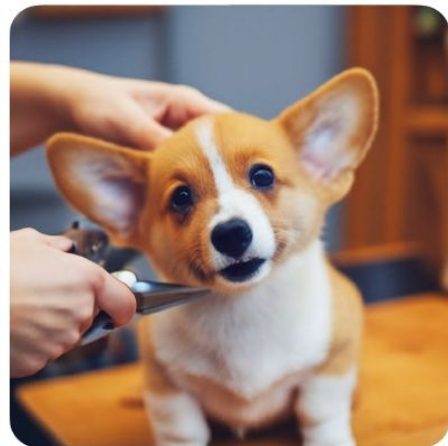
sleeping



in a doghouse



in a bucket

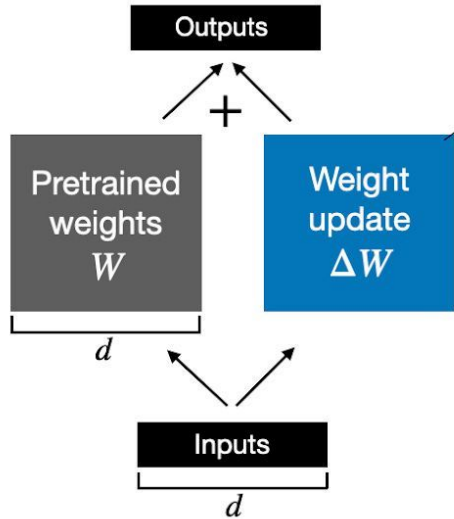


getting a haircut

# Technique 2 - LoRA

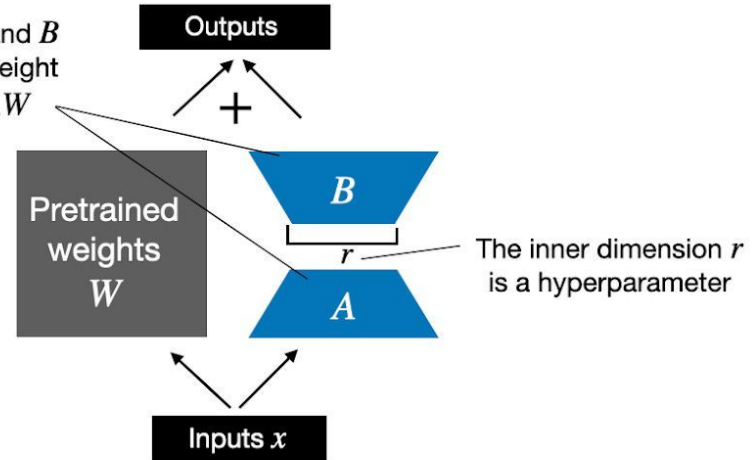
## Parameter efficient fine-tuning with LoRA

Weight update in **regular finetuning**



LoRA matrices  $A$  and  $B$  approximate the weight update matrix  $\Delta W$

Weight update in **LoRA**



# Create your own storyline

You may get some ideas from:

<https://aicomicfactory.com/explore>

*“When winning the Turing Award”*

Ref Image

telephone ringing !

Lecun answered the telephone

A staff member told him he won the Turing Award.

Lecun

Lecun was very happy because of this news

He went to receive the award

Hinton is on the way too

The Turing Award bowl is placed on the podium!

Bengio arrives at the venue to receive the award

Hinton also arrives at the venue

They enjoyed a pleasant dinner!

Bengio

Hinton

# The Fallen Unicorn Girl

## Final Metric

- Coding [80 points]
  - Dreambooth [25 points]
  - LoRA [25 points]
  - Experiments [30 points]
- Story [20 points]



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Having fun!