# Resources:-

http://people.csail.mit.edu/vladb/photoa

djust/ (GPR is too computationally intensive, so it is better to go for gradient descent or LASSO(need to be studied)

https://github.com/yuukicammy/mit-ado be-fivek-dataset (Code related to 5K)

https://github.com/mahmoudnafifi/Expo sure Correction?tab=readme-ov-file

https://github.com/mahmoudnafifi/Dee p\_White\_Balance

https://github.com/collinswakholi/ML\_C
olorCorrection\_tool - Issues in code (
wasted 2-3 days)

<a href="https://paperswithcode.com/task/image">https://paperswithcode.com/task/image</a><a href="https://enhancement">-enhancement</a>(It is Very good and Having Multiple resources)

### 5k:

https://paperswithcode.com/paper/retin exformer-one-stage-retinex-based https://arxiv.org/pdf/2303.06705v3.pdf https://github.com/caiyuanhao1998/Ret inexformer https://zhuanlan.zhihu.com/p/6579278 78

https://arxiv.org/pdf/1911.13175v4.pdf https://github.com/sjmoran/CURL?tab= readme-ov-file

- Used For white balance only

## If we Implement on ourselves

https://chat.openai.com/share/a2d4f6c b-5e9d-4b26-b7e4-e528ba0b9e61

https://chat.openai.com/share/9b4a7d6 8-c4e6-450a-9c84-e58dd646c115

# Tasks:-

#### Harsh:

- CNN study
- Check How to Do ML on large Datasets
- See above two chatGpt links And make them Work
- Done With reading Papers and repo
  - Kuch fayeda nhi hota bahut detail me hoti h . samajh ne pura din jata h. Fir unka codebase samajh nhi aata . we can do this only to check weather it run or not. Aur apne project se thode deviated topic pe hote h
- histogram equalization Just Equlizing CDF kind of thing in grey scale Improves image (No ML)
- gamma correction

### Awasthi-

- Check Wb of Nabi on Multiple photos
- CNN, BIQA- Study
- See SSIM on This nabi repo

- Study 5k paper, repo and try to Implment that

## Sujal-

- Run this repo whether it works or not (its paper studied - Harsh)
   <a href="https://github.com/caiyuanhao1998/">https://github.com/caiyuanhao1998/</a>
   <a href="https://github.com/caiyuanhao1998/">Retinexformer?tab=readme-ov-file</a>
- https://github.com/subpic/koniq
   (Shyad same si hi h ye bhi https://github.com/ZhengyuZhao/ko niq-PyTorch

-

## Nice Small Dataset (

https://www.dropbox.com/sh/0mwco5w ftcr7vI0/AACgPpmi5j8t9qZcfvOsvZn4a ?e=1&dI=0

LOW light enhancement
 https://www.youtube.com/watch?v=
 b5Uz\_c0JLMs&ab\_channel=Bhave
 shBhatt

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