Image Colourization Project

Jun-Aug 2020 | WTEF Project | Deep Learning

Priyansi Singh | Sejal Gupta | Twisha Bansal

28 August 2020

Black and White $\Longrightarrow$ **Coloured Version**

Technology Stack and Frameworks

- Area of Project: **Deep Learning**

Technology Stack and Frameworks

- Area of Project: **Deep Learning**
- Deep Learning Framework: **PyTorch**

Technology Stack and Frameworks

- Area of Project: **Deep Learning**
- Deep Learning Framework: **PyTorch**
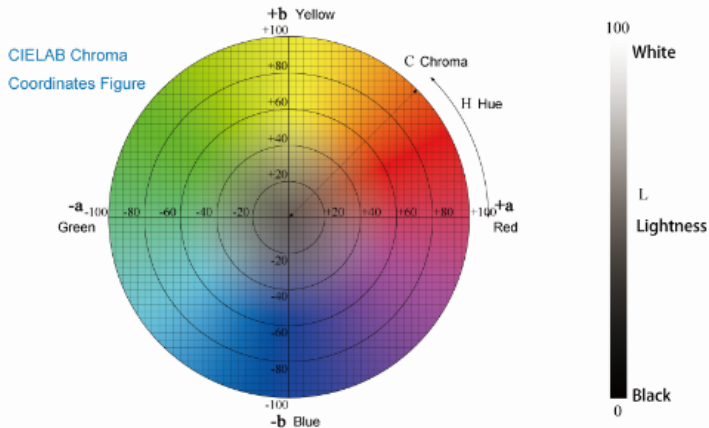- Framework used for Deployment: **Flask**

Broad idea of the method used for Colourization

Broad idea of the method used for Colourization

AutoEncoders

RGB and CIELAB

CIELAB

The AutoEncoder Model

Results

Limitations of the Model

- Trained on a very small dataset

Limitations of the Model

- Trained on a very small dataset
- Desaturated colourization

Obstacles

- Exploring other Research Papers on the topic

Obstacles

- Exploring other Research Papers on the topic
- HUGE Dataset

Obstacles

- Exploring other Research Papers on the topic
- HUGE Dataset
- Limited Resources

Obstacles

- Exploring other Research Papers on the topic
- HUGE Dataset
- Limited Resources
- Colour Conversions

What if we don't use **CIELAB** colorspace?

Questions and Suggestions?