



VIVI

MAGIC

Bringing Old Photos
Back to Life

BY AI HOGGERS



DISCUSSION POINTS

Key topics covered in this presentation



The problem

The solution

Technologies used

Prototype Implementation

Business model

PROBLEM STATEMENT

Back in old days you had to get the roll of film developed, have the photos printed, and tuck them away safely into photo albums to ensure that the memories captured in each photo could be enjoyed for years to come.

Unfortunately, these printed photos have a limited lifespan. As the years went by, deterioration would set in, leaving us with photo albums and boxes full of old, damaged photos.



SOLUTION

- Vivi magic. It is a python based autonomous system restore old and damaged images using Python and Deep learning (Computer Vision)
- It upscales as well as colors the image even providing a side-by-side for user's reference.
- Has an accuracy of 98%.

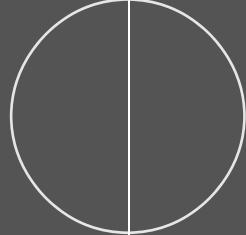
TECHNOLOGIES USED

- fastai==1.0.51
- tensorboardX==1.6
- ffmpeg-python
- youtube-dl>=2019.4.17
- opencv-python>=3.3.0.10
- pillow
- tornado~5.1.0
- torch>=1.7
- numpy<1.21 # numba requires numpy<1.21,>=1.17
- opencv-python
- torchvision
- scipy
- tqdm
- basicsr>=1.3.4.0
- faceplib>=0.2.0.3
- Imdb
- pyyaml
- tb-nightly
- yapf
- realesrgan
- basicsr==1.3.5

PROTOTYPE IMPLEMENTATION



BUSINESS MODEL



Direct B2C use

Higher accuracy
than other
competitors.

Can be used as a
full fledged web
and mobile
application



THANK YOU!

