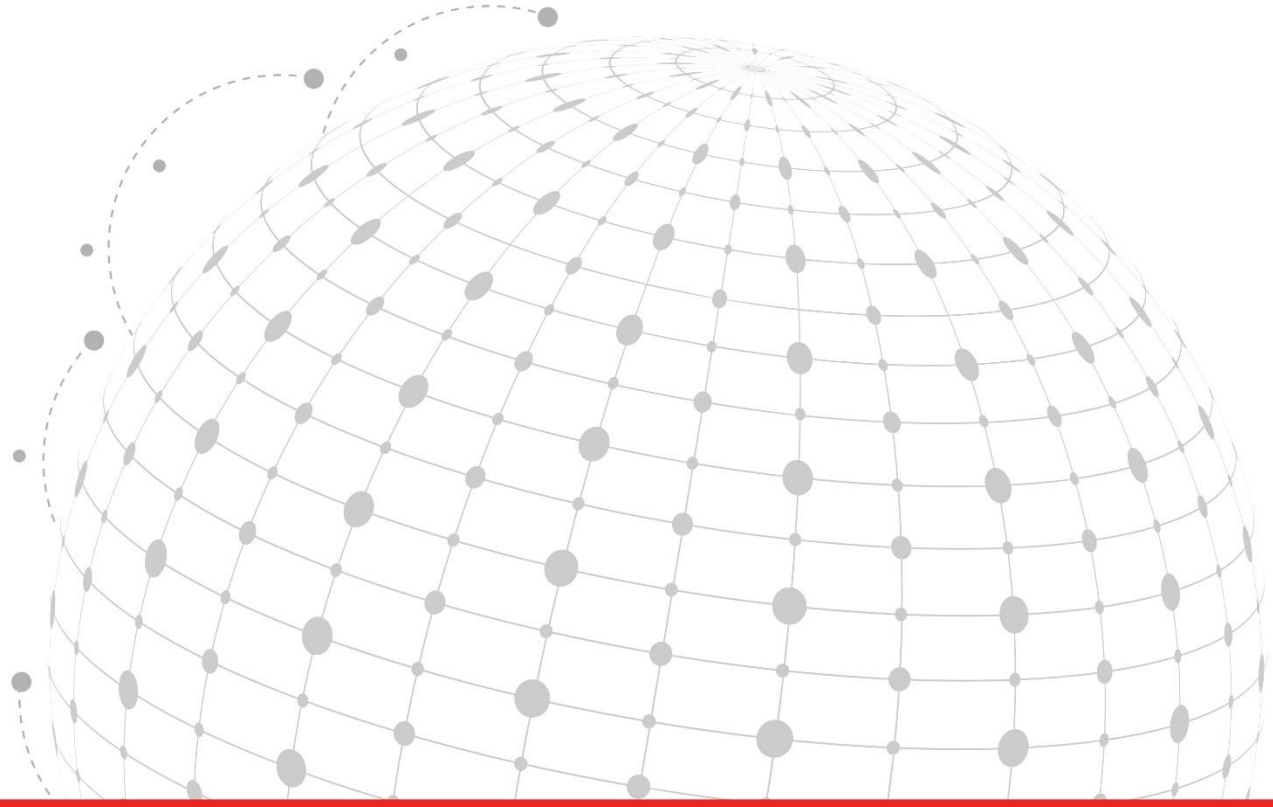


Creative Software

Mini-Hackathon 2021 - Workshop

Presenters: Keet Sugathadasa | Sandun Amarathunga

AGENDA

- Setting up your environment
- Introduction to Github
- OCR with python Tesseract and OpenCV
- Setting up your working environment with Kaggle

Installing Github and Python

Installing Github and Python

- Install Github on your personal computers.

  Link: https://github.com/git-guides/install-git

- Install Python 3 or above version on your personal

  computer. Link: https://www.python.org/downloads/

Working with Github

Working with Github

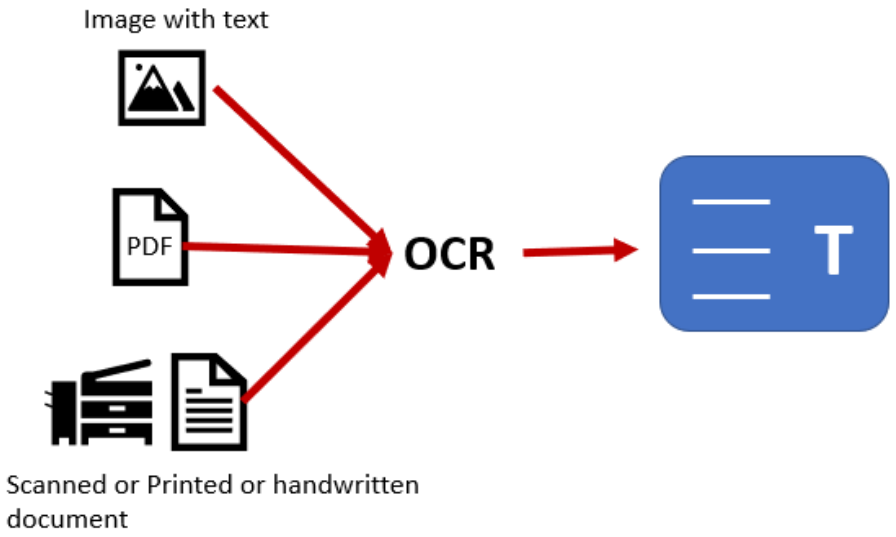
- Check the status of your repo: git status
- Checkout from a new branch: git checkout –b new-branch-name
- Checkout from existing branch: git checkout –b existing-branch-name
- Pull from specific branch: git pull origin branch-name
- Pushing local code to remote github
  - git add --all
  - git commit –m "commit message"
  - git push origin branch-name

Optical Character Recognition (OCR)

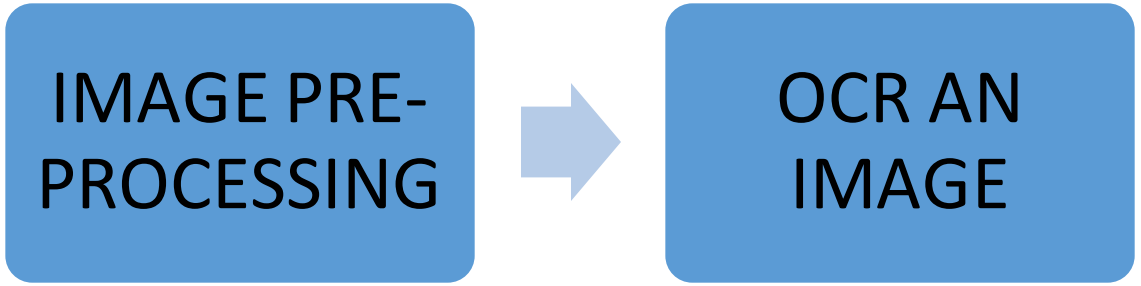
With Python Tesseract

Optical Character Recognition (OCR)

- Converting an image that has text to Raw text



Workflow



Getting Started

- Python-tesseract (requires Python 2.7 or Python 3.6+)
- OpenCV
- Tutorial - https://www.youtube.com/watch?v=89m89vVh4wg

Resources

- Py-tesseract - https://pypi.org/project/pytesseract/
- OpenCV - https://www.pyimagesearch.com/2018/09/17/opencv-ocr-and-text-recognition-with-tesseract/
- Adaptive Threshold – Click Here
- OCR demo Source Code - https://github.com/cslworld/stat-circle-workshop-test

DEMO

Setting up environment in Kaggle

Setting up environment in Kaggle

- Log in to Kaggle: https://www.kaggle.com/
- Verify your mobile number
- Setting up the working environment
- Sharing your notebook with the team and evaluators