# Medical Image Analyzer Project Report

https://github.com/KyeongsupChoi/MIA

Started Jan 7th, Invested approximately 90 hours

#### Data

https://github.com/BIMCV-CSUSP/BIMCV-COVID-19

- CR, DX, CT images
- 23521 files (152GB)
- Data Columns ImageID, StudyDate\_DICOM, StudyID, PatientID, PatientBirth,
  PatientSex\_DICOM, ViewPosition\_DICOM, Projection, MethodProjection, Pediatric,
  Modality\_DICOM, Manufacturer\_DICOM, PhotometricInterpretation\_DICOM,
  PixelRepresentation\_DICOM, PixelAspectRatio\_DICOM, SpatialResolution\_DICOM, Labels, group,
  Partition, Subject\_occurrences, Partition\_occurrences

### **Model Training**

- Training Set: 200 pneumonia 200 normal
- Tensorflow Keras -Resnet50
- batch\_size=32, epochs=10,

#### **Model Evaluation**

- Validation loss = 0.59
- Accuracy = 72.5%

## **Future Development**

- Proper EDA
- Add columns