PYCK Project abstract

Project title : Using Keras API to build brain tumor classification

Building a convolution neural network and train it on a Brain MRI dataset. The dataset has around 3000 Brain MRI scans which are categorized in four classes. After training the model, we should be able to create an image classification model that can classify Brain MRI scans with a reasonably high accuracy. The dataset will be cloned from Github repo and stored in directories in Google Colab. Then, the data will be visualized and cleaned for use in the model. The model will be then trained and evaluated. In the first week, data augmentation, cleaning and visualization will be done and later in next week actual model will be built. I will have to learn Keras API for this implementation. The motivation was to get hands-on experience on how to use Github, data cleaning and implementing Keras API framework.