



Islamic University of Technology

## PROJECT IDEA

### PROJECT NAME

BRAIN TUMOR DETECTION AND CLASSIFICATION

Supervisor

Md Asif Newaz (Lecturer)

Islamic University Of Technology

### SUBMITTED BY

1. Maleha Mahmud - (ID-190021212)

2. Shafaiet Newaz Wornob - (ID-190021237)

3. Nafisa Ava - (ID-190021104)

ELECTRICAL & ELECTRONIC ENGINEERING

Biomedical Signal processing

EEE 4872

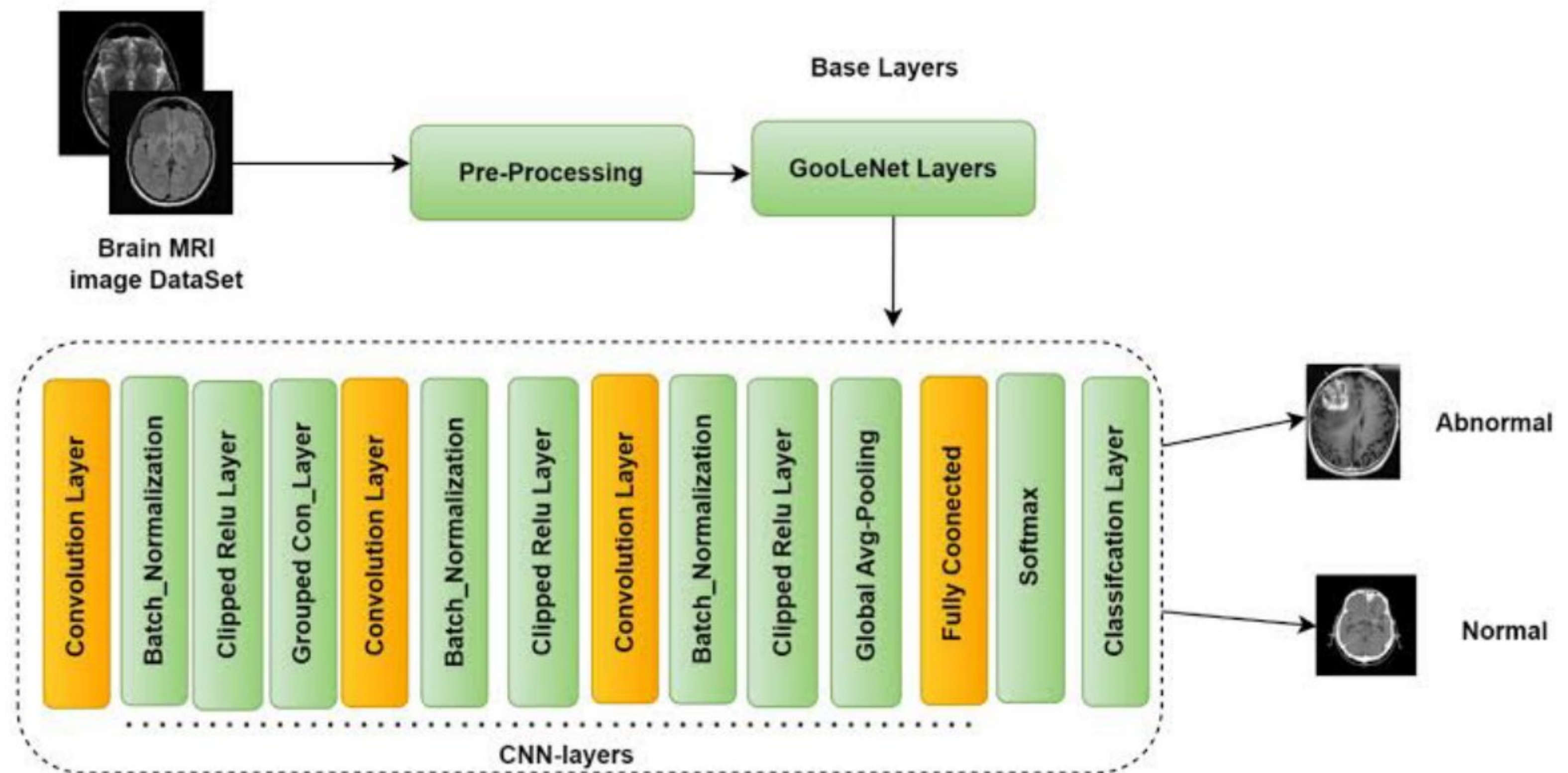




## Objective

- Our study deals with classification on MRI images
- Normally the anatomy of the brain is analyzed by MRI scans or CT scans.
- Our system aims to detect the tumor from the given MRI scan and then classifies the tumor as malignant or benign
  - The system incorporates image processing, pattern analysis and is expected to improve the sensitivity, specificity, and efficiency of brain tumor screening.

## PROJECT SYNOPSIS



The main goal of this work is to design efficient automatic brain tumor classification with high accuracy, performance and low complexity. Brain MRI image is mainly used to detect the tumor and tumor progress modeling process. This information is mainly used for tumor detection and treatment processes. MRI image gives more information about given medical image than the CT or ultrasound image. MRI image provides detailed information about brain structure and anomaly detection in brain tissue.

