# Brain Tumor Identification and Classification

Created by Adarsh Mishra
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G-119

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# OUTLINE

Topics are:-

* Area of Research
* Work Breakdown Structure
* Introduction
* Motivation
* Issues and Challenges
* Requirement
* Objective
* References

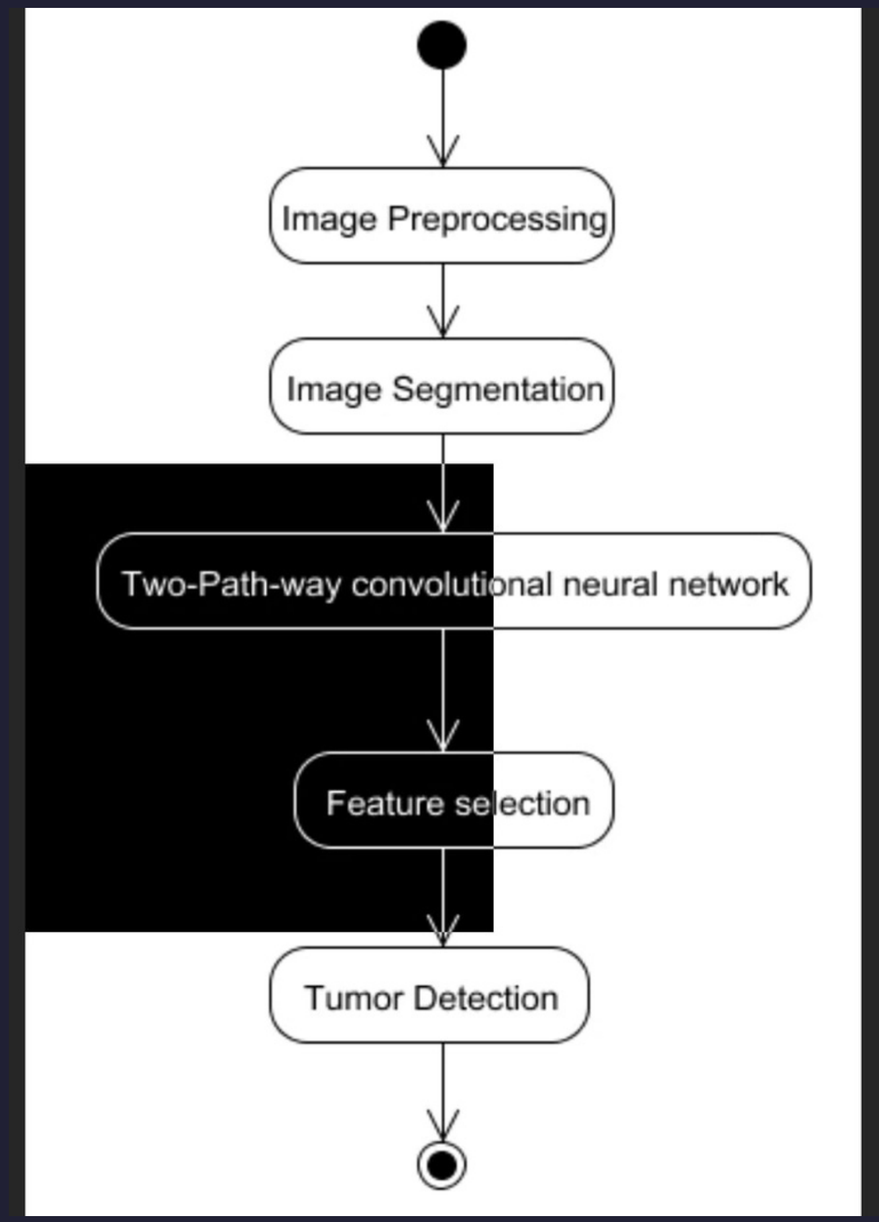
# Area of Research

## Deep Learning Techniques

Convolutional Neural Networks (CNN)

Python

# Work Breakdown Structure



# Introduction

Manual segmentation of the brain tumors for cancer diagnosis from MRI images is a difficult, tedious, and time-consuming task. The accuracy and the robustness of brain tumor segmentation, therefore, are crucial for the diagnosis, treatment planning, and treatment outcome evaluation.

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Mostly, the automatic brain tumor segmentation methods use hand designed features

The accuracy and the robustness of brain tumor segmentation, therefore, are crucial for the diagnosis, treatment planning, and treatment outcome evaluation

Here, we describe a new model two-pathway-group CNN architecture for brain tumor segmentation, which exploits local features and global contextual features simultaneously

# Motivation

>Accurate and sharp determining of Brain Tuberculosis

>Doctors become helpful with accuracy

>It learns from past record which make it more accommodate result.

>The accuracy and the robustness of brain tumor segmentation

# ISSUES AND CHALLENGES

Require large dataset for training the machine

Difficulty in matching the benchmark set by medical organisation

mapping to the pinpoint location of tumour

# Objectives

Brain tumors for cancer diagnosis

The accuracy and the robustness of brain

Validation of the model on BRATS2013 and BRATS2015

diagnosis, treatment planning, and treatment outcome evaluation

# Requirements:

## HARDWARE AND SOFTWARE SPECIFICATION

1.5.1 Hardware Requirements

Processor : I3 and Above

RAM : 4GB and Above

Hard Disk : 500GB and Above

1.5.2 Software Requirements

Operating System : Windows 7 , 8, 10 (64 bit)

Tools : Anaconda (Jupyter Note Book IDE)

# REFERENCES

>https://www.hindawi.com/journals/acisc/2022/8104054/.

>https://www.datascience2000.in/2021/05/brain-tumor-classification-in-deep.html