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# Brain Tumor diagnosis

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## **Overview**

- After many years of looking at ultrasound images , we decided to do this project to help doctors to diagnose cancer in more accurate way that prevent fatigue and mistakes that causes after looking through large volumes of images.

## **Goal**

- Using deep learning could be ideal solution because these algorithms are able to learn features from raw image data and predict the correct diagnosis.

## **Used technology**

- 1- Convolutional Neural network (Cnn)
- 2- Computer vision (Cv)
- 3- Object detection

## PEAS

- ✓ **Performance:** Healthy patient, minimize costs
- ✓ **Environment:** Patient, hospital, staff
- ✓ **Actuators:** Screen display
- ✓ **Sensors:** Browse button (To take the picture of X-Ray)

## ODESDA

- ❖ **Observable:** Partial observable
- ❖ **Deterministic:** stochastic
- ❖ **Episodic:** sequential
- ❖ **Static:** dynamic
- ❖ **Discrete:** continuous
- ❖ **Agent:** multi agent

## Agents Types

→ Learning agent

## Problem Formulation

- ✚ **Initial State:** Analysis of any random photo (X-Ray)
- ✚ **Successor function:** set of algorithms that helps us to correct diagnosis
- ✚ **Goal test:** correct detection
- ✚ **Path cost:** accuracy

## Team members

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