

**Mansoura University**

**Faculty of Computers and Information**

**Department of Computer Science**

**Project Proposal**

# Arabic Title

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الكشف عن مرض الزهايمر

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##### English Title

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ALZHEIMER DETECTION

### **Submitted by:**

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Project Abstract:

The purpose of this project is to detect Alzheimer’s Disease using DL and ML algorithms, The early detection of Alzheimer’s Disease because of it’s progressive risk and patients all around the world. Early detection of AD is promising as it can help lot of patients to predetermine the condition they may face in future. AD being progressive, can be prevented if detected early. On worse stage, the curing of this disease is very difficult and expensive

Project Objectives:

Use of Artificial intelligence technology by using MRI scanned images to classify the patients if they may or may not have AD in future. Using of Bio-inspired algorithm can maximize the result and accuracy for this purpose.

Who are the project **competitive**? and how will your project be **different**?

Competitive: Early Detection of Alzheimer’s Disease Using Magnetic Resonance Imaging: A Novel Approach Combining Convolutional Neural Networks and Ensemble Learning.

**different** : the difference between us is we use detection by mri but they use detection by genotype of APOE gene.

Tools, Hardware and Software Resources:

**Tools :-**

-cnn

**Software:-**

-pychram

-Jypiter

-phpstorm

-Xampp

-vscode

**Hardware:-**

SCHEDULING PHASES:

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| **From** | **To** | **Activity** |
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References:

[**https://www.sciencedirect.com/science/article/pii/S2772528622000280**](https://www.sciencedirect.com/science/article/pii/S2772528622000280)

[**https://www.jns-journal.com/article/S0022-510X(21)01702-0/fulltext**](https://www.jns-journal.com/article/S0022-510X(21)01702-0/fulltext)

[**https://pubmed.ncbi.nlm.nih.gov/1592074/**](https://pubmed.ncbi.nlm.nih.gov/1592074/)