

**ICS Faculty**

**Student Graduation Project Form**

| **Student Name:** Ashraf Adel Haress | **Student ID:** 196280 | **Specialization:** Artificial Intelligence |
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| **Supervisor Name:**  Dr. Nahla Barakat |
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| **Project Title: PIC *(Personal Images Classifier)*** |
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| **Abstract:**  Image classification is the task of classifying an image into one of predetermined categories or classes. This classification task is used in many applications such as biomedical imaging, and vehicle navigation [[1]](https://www.zotero.org/google-docs/?zO7yR5). However, the problem presented here focuses on facial recognition and meme detection.  The motivation behind this problem stemmed from having less time to manage my phone’s media as I get older; from random memes that I once found funny to screenshots of chats I previously had and greeting images sent every holiday, I rarely have time to delete all these irrelevant images (IRIs) and keep the personal photos (PIs) of my friends and family that I cherish. **Therefore, the aim of this project is to automate the process of finding these PIs and IRIs using machine learning and deep learning techniques**. Related work includes classifying images to memes or not and then semantic searching on the type of memes [[2]](https://www.zotero.org/google-docs/?HWi2mK), and classifying memes as hateful or non-hateful using computer vision and NLP techniques [[3]](https://www.zotero.org/google-docs/?ODFnuZ). The contribution of this project is the collection and organization of a dataset that is tailored to the Egyptian culture which will be curated in order to tune the proposed ML/DL model to be convenient for those, especially Egyptians, who want to separate PIs from IRIs on their storage devices.  **References:**  [[1] P. .R, S. Sathiamoorthy, and M. Kaliyamoorthi, “A Review of Image Classification Approaches and Techniques,” Mar. 2020, doi: 10.23883/IJRTER.2017.3033.XTS7Z.](https://www.zotero.org/google-docs/?2gXegy)  [[2] J. Perez-Martin, B. Bustos, and M. Saldana, “Semantic Search of Memes on Twitter,” p. 14.](https://www.zotero.org/google-docs/?2gXegy)  [[3] R. Jadhav and Prof. Vikas. N. Honmane, “MEMES CLASSIFICATION SYSTEM USING COMPUTER VISION AND NLP TECHNIQUES,” *Int. J. Eng. Appl. Sci. Technol.*, vol. 6, no. 2, Jun. 2021, doi: 10.33564/IJEAST.2021.v06i02.025.](https://www.zotero.org/google-docs/?2gXegy) |
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| **Supervisor Feedback:**  I have discussed this project with the student and find it is **ACCEPTABLE**.  I have discussed this project with the student and find it is **UNACCEPTABLE**.  **Comments, suggestions, or concerns:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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| Supervisor Signature:  Date: | Student Signature:  Date: / / |
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