Diploma Project
Academic Year 2023/2024

Project code: 202305

Project Title (English):

Arabic Handwritten Recognition Using Deep Learning

Project Title (Arabic):

التعرف على الخط العربية باستخدام التعلم العميق

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Project Objectives:
The automatic recognition of text on scanned images has enabled many applications such as searching for words in large volumes of documents, automatic sorting of postal mail, and convenient editing of previously printed documents. The domain of handwriting in the Arabic script presents unique technical challenges and has been addressed more recently than other domains. Many different methods have been proposed and applied to various types of images. Here we will focus on the recognition part of handwritten Arabic letters and digits recognition that face several challenges, including the unlimited variation in human handwriting and the large public databases.
In this project we will use the public datasets Arabic Digits and Arabic Letters for Arabic letters and Arabic digits respectively which are available at kaggle kernels.

Project Outcomes:
- The proposed system architecture for Arabic Handwritten Recognition with Artificial intelligence using deep learning.