

**Faculty of Engineering & Technology Electrical & Computer Engineering Department**

**ARTIFICIAL INTELLIGENCE**

**ENCS3340**

**Topic Selection with Abstract**

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# Arabic Named Entity Recognition (ANER)

Named Entity Recognition (NER) plays a crucial role in understanding and processing Arabic text, particularly in identifying entities such as time, location, and person names. This project aims to implement an Arabic NER system using Python since the vast majority of the literature related to the subject is implemented in Python and its libraries. The datasets utilized include Wojood, AQMAR, and ACE Arabic, which provide annotated examples of various named entities. We are more likely to work on Wojood since it’s the richest of the available datasets, but we will keep an eye on the others. The objective is to develop a model that accurately identifies and classifies these entities from raw Arabic text into organization, location, and person. This is the simplest of many possible classifications but we will start from them and we may expand our classes later. Expected results include improved entity recognition accuracy and the generation of valuable insights from the analyzed data.

# References

**[1] A Survey on Arabic Named Entity Recognition.**

<https://arxiv.org/abs/2302.03512>

**[2] Arabic natural language processing An overview guellil.**

<https://www.sciencedirect.com/science/article/pii/S1319157818310553>