

The left side of the slide features five vertical panels of varying heights and widths. The first panel is dark blue. The second panel shows hands typing on a laptop. The third panel shows a hand pointing at a laptop screen with a play button icon. The fourth panel shows a hand pointing at a laptop screen with a magnifying glass icon. The fifth panel is light blue. Overlaid on these panels are several white line-art icons: a graduation cap, a target with an arrow, an open book, a magnifying glass, and a group of people.

Practical Image Processing and Natural Language Processing

Lecture Intro

Prepared by
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Who am I?

Hager Saleh Mohammed Ahmed

About me

Assistant Professor at the Artificial Intelligence Department at Midocean University

Educational Degrees

Ph.D. from Faculty of Computer and Information , Minia University

Ph.D's thesis title: Efficient Predictive Analytics using Big Data Platforms

M. Sc. From Aswan University

Bachelor from Faculty of Computer and Information, Assiut University.



Course topics

Course includes two main topics:

- Foundations and Applications of Image Processing and Classification
- Foundations and Practical Applications of Natural Language Processing

The topic objectives

1. Installing the main environment for the practical applications.
2. Understanding the basic concepts of images.
3. Studying and implementing different types of data augmentation.
4. Applying deep learning to image classification.
5. Studying different evaluation methods for models of image classification.
6. Implementing different projects

The topic objectives:

1. Installing the main environment for the practical application.
2. Understanding the basic concepts of NLP.
3. Studying main pre-processing steps of NLP.
4. Implementing different vector representation techniques.
5. Applying machine learning to NLP.
6. Applying deep learning to NLP..
7. Studying different evaluation methods for models of NLP.
8. Implementation different projects



Projects

Projects	Due Week	Degree
Project 1	Week 5	50%
Project 2	Week 10	50%



Thank You