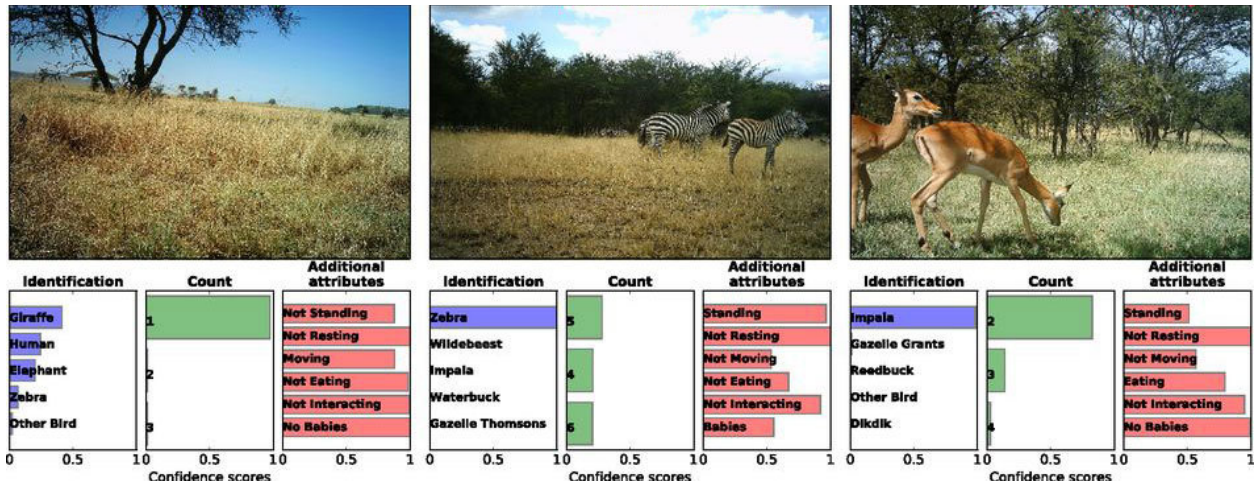


# INSY 4054 Group Project - Phase-II

In this project, you will leverage the topics covered in the AI, Automation, and Cloud Computing modules to propose and build a prototype of an AI product that can create value for your target customers by solving an important problem.



## Requirements for Phase-II

Your Phase-II report should be **roughly 7-14 pages** (double-spaced, font-size: 12, font type: Times New Roman, Arial, or Calibri) including all tables (tables are single-spaced, font-size: 9), graphs, forms, etc.

In Phase II, you will create a prototype of your proposed solution to serve as a proof of concept. The report should mainly cover the following points:

1. **Functionalities:** select a manageable subset of the functionalities you proposed in Phase I. Justify your decision to select these functionalities by writing a decision essay. To do so, follow the decision-making steps we practiced in our case study sessions. More specifically, see page 6 of the Case Study Aid (Writing a Decision Essay). (~1-2 pages)

2. **Data:** Discuss how you acquired the needed data for your model, the challenges you faced, and how you overcame them. Provide a small sample of your data in the document. Note that if you need to crawl the data from a website, you can choose to have a relatively smaller sample to keep the project scope more manageable. (~1-2 pages)
3. **Solution:** Discuss in detail your final solution, how you created it, and how it works. For instance, for your machine learning model(s), provide a schematic architecture of your model (similar to what we had in the slides) and explain what kind of input you feed into the model and what kind of output the model generates. As another example, if your solution involves an automated system that grabs an image from a website, feeds it to your machine learning model, and creates a report in Excel, you can explain how each part works separately.

Note that sometimes integrating different parts of the solution by itself requires a large amount of programming. For this project, you can **create** and **test** each part separately because the main goal is to show that the solution could work given more time and resources. [~5-10 pages]

4. **Code:** Provide a well-explained Colab or Jupyter Notebook for each part of the solution or data collection that involves coding (if you have an integrated solution, one notebook that includes all parts works too). [separate .ipynb files]

**If you have any questions or need more clarifications, you can either ask your questions via email or set up a meeting with me to discuss the project.**