**Vehicle Detection**

**Project Description:**

The main objective of this project is to learn how to detect objects in a given satellite image using well-known object detection models. The first part of the project will include an “Introduction to Object Detection Models” which deals mainly with running object detection models, learning about different detection models, and comparing the results. The second part "The image Data Preparation" aims to extract vehicle data from the available datasets, unify the annotation format. The third part of this project is to visualize the obtained results in an interactive dashboard.

**Duties/Activities:** building object detection model, collecting related dataset (images), comparing results of different detection models, and visualizing the result on interactive dashboard

**Required Skills:** Deep learning experience, Python, Javascript/HTML (for visualization)

**Preferred Intern Academic Level:** MS or PhD level

**Learning Opportunities:** This project is a great opportunity to learn how to detect objects in images and visualize them in an interactive dashboard.

**Expected Team Size:** one to two interns.

**Mentors**
Noora Al-Emadi / nalemadi@hbku.edu.qa
Dr. Ferda Ofli / fofli@hbku.edu.qa
Dr. Ingmar Weber / iweber@hbku.edu.qa