**HubMAP – Hacking the Kidney**

An adult human is composed of trillions of cells, so understanding the interaction, connection, and arrangement between cells and tissue is meaningful for human health study. HuBMAP consortium is committed to the development of a framework for mapping the human body at a level of glomeruli functional tissue units. As part of its program, Hacking the Kidney aims to identify the glomeruli functional tissue units (FTUs) in human kidney tissue images. Thus, our final goal in this project is to build a robust glomeruli FTU detector.

Links to the project and data: <https://www.kaggle.com/c/hubmap-kidney-segmentation/data>

**- Price Match Guarantee**

**SHOPEE - Price Match Guarantee**

The objective of the project is to determine if two products are the same by their images. Typically, retailers would provide a product at a competitive rate, compared to the one provided by other retailers. Then matching products would be a common way for them to observe the market prices and guarantee their price advantage. The problem happens a lot when you are trying to match a product of an image but a different product comes out due to their similar looks. Now, Shoppee an e-commerce platform wants to help its clients to solve this mismatching problem.

Links to the project and data: <https://www.kaggle.com/c/shopee-product-matching/data>

**Human Protein Atlas – Single Cell Classification**

The Human Protein Atlas is an initiative that is aimed at mapping proteins in all human cells, tissues, and organs. It has leveraged the machine learning models for classifying protein localization patterns in microscope images. This achievement enables to characterize the functional heterogeneity between groups of cells. Though, characterize single-cell heterogeneity is as well as important. Generating more precise patterns of thousands of human proteins in individual cells will facilitate the Human Protein Atlas mapping a more accurate spatial organization of the human cell.

<https://www.kaggle.com/c/hpa-single-cell-image-classification/overview>

- Price Match Guarantee

**etermine if two products are the same by their images**