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## Plant recognition

**Relevant training course:** Data Scientist

**Level of difficulty:** 06/10

### Description of the project:

The objective of this project is to locate and classify the species of a plant in an image. Once the classification is made, you can return to the user a description of it and identify the possible diseases. The application will therefore be able, from an image taken by the camera, to give a succession of information to the user.

### Resources to refer to:

- **Data:**
  - Species ID:  
<https://www.kaggle.com/vbookshelf/v2-plant-seedlings-dataset>  
<https://storage.googleapis.com/openimages/web/download.html>  
<https://cocodataset.org/#home>
  - Disease on plants:  
<https://www.kaggle.com/vipooooool/new-plant-diseases-dataset>  
<https://www.kaggle.com/saroz014/plant-disease>  
[https://www.kaggle.com/abdallahalidev/plantvillage-data set](https://www.kaggle.com/abdallahalidev/plantvillage-data-set)
- **Bibliography:**
  - <https://hal.archives-ouvertes.fr/hal-01629183/document>
  - [https://play.google.com/store/apps/details?id=org.plantnet&hl=en\\_US](https://play.google.com/store/apps/details?id=org.plantnet&hl=en_US)
  - <https://www.plantsnPlantNet.com/> Plant Identification - Apps on Google Play

### Validation conditions for the project:

- an exploration, data visualization and data pre-processing **report** ;
- a modeling **report** ;
- a final **report** and associated **GitHub**.

[DataScientest.com](https://www.data-scientest.com)

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