



- **Problem statement:**

Perform Natural Language Processing NLP in Arabic text-based Plants data and analyze the data to predict plant type by using Unsupervised learning models.

- **Data Description:**

We used some Web scraping tools to scrap 1000 plant from **Nabataty.com**. In this project we will perform NLP in Arabic text-based data and analyze the data to predict plant type by using Unsupervised learning models.

- **Data type:**

- **Plant name:** the plant name
- **Irrigation:** irrigation way
- **lighting:** if plant need light or not
- **temperature:** temperate atmosphere
- **Price:** plant price in SAR
- **Product code:** product code in the website
- **Tag:** plant tags in the website
- **Height:** the height of the plant with the pot in cm
- **Width:** pot width in cm
- **Description:** plant description

- **Data size:**

- **No. of rows:** 1000
- **No. of columns:** 10

- **Tools:**

- HTML
- Web Scraping: beautiful soup, selenium
- Programs: Python Jupyter Notebook
- Plots: bar plot, cat plot, pie chart

- **MVP Goal:**

The goal of this project is to perform NLP in Arabic text-based Plants data to predict plant type by using Unsupervised learning models.