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| **Pertemuan 4 – Teknik Praproses Data** |
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| **Tujuan pembelajaran** |
| * Mahasiswa mampu menggunakan library scikit-learn untuk praproses data. * Mahasiswa mampu menerapkan beberapa teknik praproses data seperti pembersihan data, normalisasi data, penggabungan data, reduksi data, dan pembagian data. |

Data Tabular – Visualisasi Iris Datataset

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| # lib manipulasi data  import pandas as pd  import numpy as np    # lib visualisasi data  import seaborn as sns  import matplotlib.pyplot as plt    # lib preprocessing  from sklearn.preprocessing import MinMaxScaler  from sklearn.preprocessing import StandardScaler  from sklearn.preprocessing import RobustScaler  from sklearn.model\_selection import train\_test\_split |
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| # load dataset  dataset = pd.read\_csv("../dataset/dataset\_iris.csv") |
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| # Set features and Labels  x = dataset[["sepal\_length","sepal\_width","petal\_length","petal\_width"]].values  y = dataset["species"].values |

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