

How DSA is used in Machine Learning?

→ Tree Data Structure
(DSA)

(Machine Learning)

↳ Decision Tree, Random Forest

Regression

Classification

→ Searching Algorithms

↳ Binary Search

↳ n nearest neighbours from
a set of given

Divide & Conquer data points

DSA using Python

→ Sorting Algorithms — MergeSort & QuickSort

↳ Importance of

Sorting
Algorithm

features

↳ Ranking
in descending
order

→ Array Data Structure — store feature vectors

→ Hashing Data Structure — Efficient lookup for
feature values
↳ (key, value)

→ Graph — DFS & BFS

↳ clustering, Pattern recognition
Network analysis

↳ Dynamic Programming — Optimization Problems
↳ to find out the
best parameters in
the model

↳ Optimize your code
↳ Time & space
complexity