

# Lab-3

DS5300: Data Structures for Data Science

August 20, 2024

## 1 Binary Search Tree

- Implement a Binary Search Tree class with root.
- Implement a node class with key, parent, left, right.
- Implement the following functions:
  - `insert(node)`
  - `tree-minimum(node)`
  - `tree-maximum(node)`
  - `tree-search(key)`
  - `inorder-tree-walk`
  - `successor(node)`