

# DATA STRUCTURE IN REAL LIFE



code\_buddy\_  
Ganesh Kokate

# Array



- 2d Arrays are mainly used in Image processing
- RGB image uses a 3D Matrix
- 2D Arrays used in Game Design like Sudoku, Chess
- The Leaderbord of Game or coding contest



# Stack



- Browsing history of visited websites
- Undo/Redo Operations
- Call history/log in mobile phone
- JVM uses Stack to store immediate





# Queue



- Used in first come first serve job CPU scheduling algo
- All request are Queued for server to Respond
- Circular Queue to switch between different application



# Tree



- Representation structure in file Explore
- Decision Based machine learning algorithm
- BST can be used in sorting algorithm
- binary tree used in database indexing



# Graph



- In Instagram, Linked in and Other Social networking sites
- Facebook Graph API and Google Knowledge API
- Google Map to show the shortest path





# Linked List



- Previous and Next page in web Browser
- Songs in music player
- Images in phone Gallery
- Multiple application in PC uses circular linked list

