

For Grade - 11<sup>th</sup>



Presented by Alimtehaan



# Learn From The Best!!



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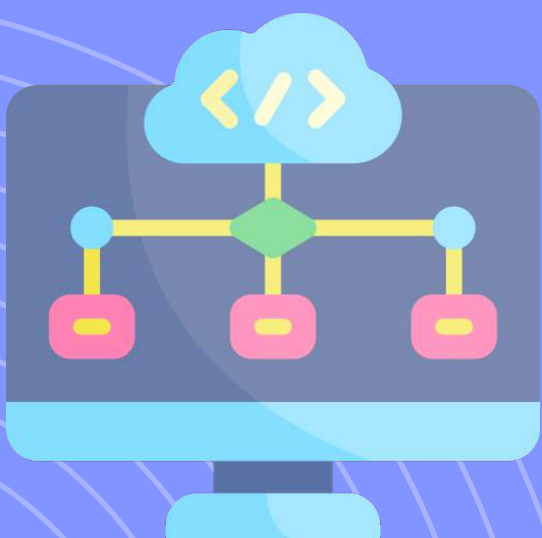
# Course Outline

## Review and Reinforcement

- Setup linux command prompt in your system : Dual boot and WSL
- Advanced data types: dictionaries, sets, and tuples
- File I/O operations in Python
- Object-oriented programming in Python



## Exception handling in Python



- Recursion and algorithms
- Debugging strategies and tools
- Version control with Git and GitHub
- Basic data structures: stacks, queues, linked lists, and trees

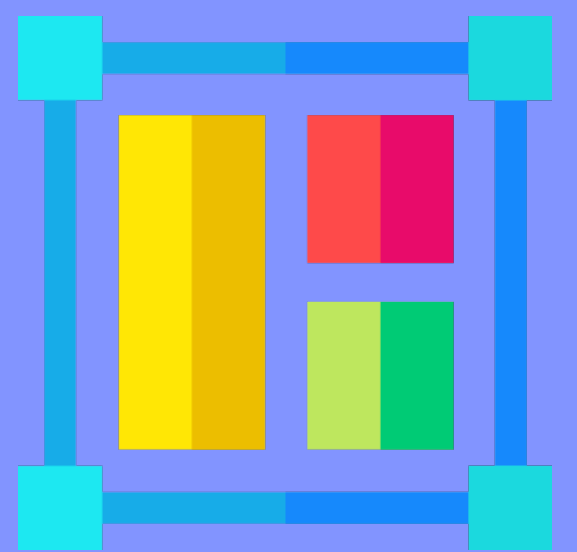


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# Course Outline

## HTML & CSS

- HTML5 and its semantic elements
- CSS3 and its layout and styling features
- JavaScript and its syntax, data types, and control structures
- Sorting algorithm: quicksort, and mergesort



## Introduction to React

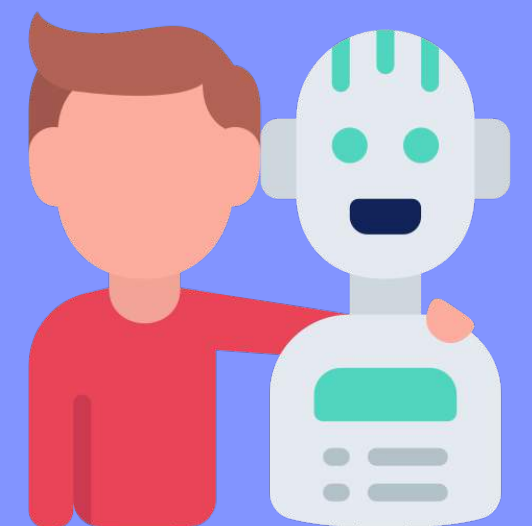
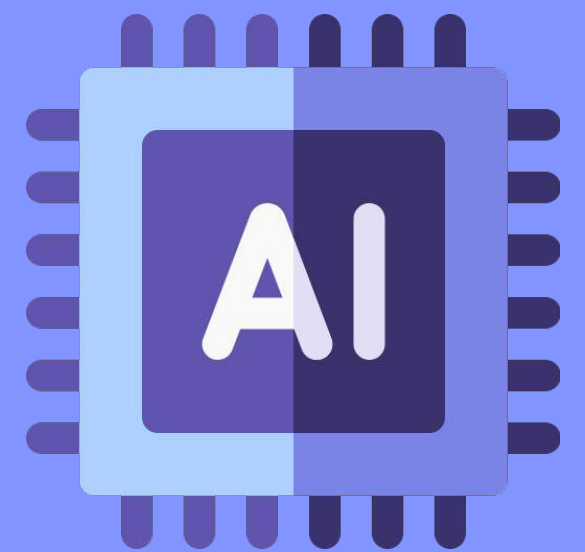


- Creating React components and props
- Handling events in React components
- Using state and lifecycle methods in React components
- API integration in React applications

# Course Outline

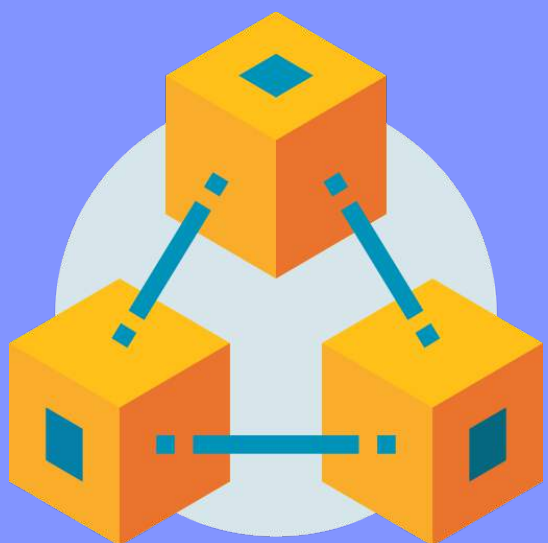
## Artificial Intelligence and Deep Learning

- Introduction to deep learning and neural networks
- Building deep learning models using Python libraries
- Understanding the basics of computer vision and robotics
- Keras library for deep learning models

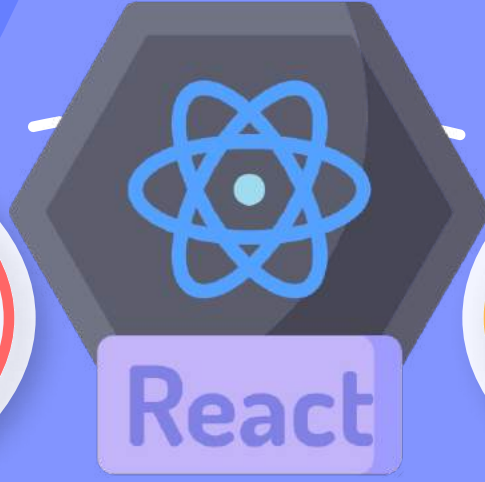


## Blockchain

- Understanding basic cybersecurity concepts and principles
- Introduction to cryptography and its applications
- Implementing basic cryptography algorithms in code
- Cryptography in blockchain



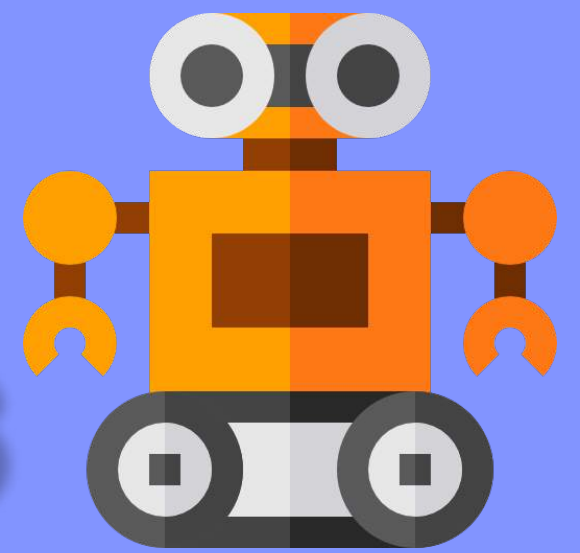
ReactJs



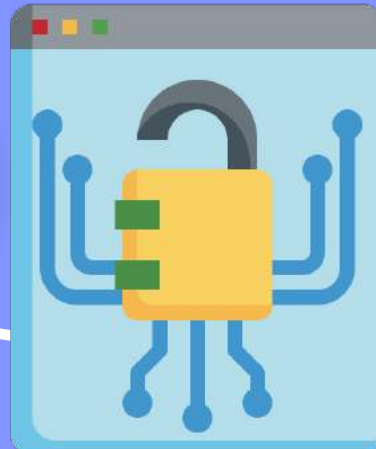
Intelligent Robots



# Learning Outcomes



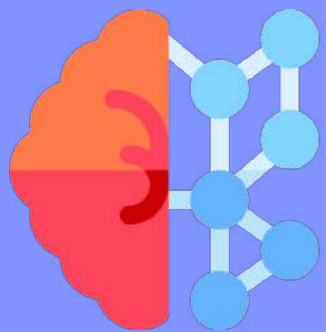
Cybersecturity



Cryptography

# Key Points

Make advanced websites with advanced backend systems



Name various types of neural networks

Creat chatbots that you can talk with



Become well versed with crytography