

For Grade - 9<sup>th</sup>



Presented by Al imtehaan



# Learn From The Best!!



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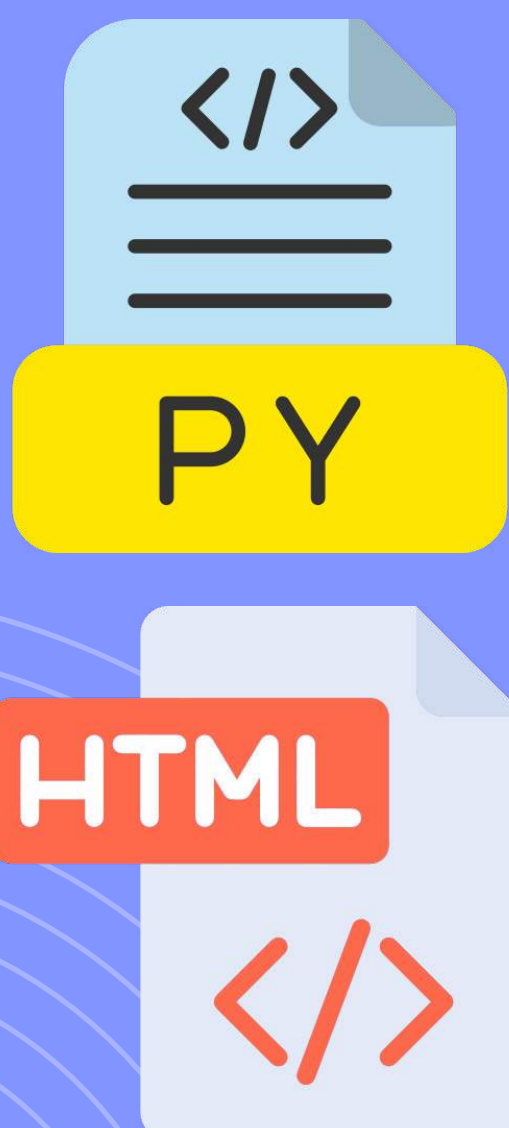
# Course Outline

## Review and Reinforcement

- Introduction to Programming: Review and Reinforcement
- Advanced Programming Concepts: Object-Oriented Programming
- Introduction to new programming concepts and tools
- Review of programming concepts from previous years



## Python & Web Development



- Programming with Python: Introduction and Basic Syntax
- Python Programming: Conditional Statements and Loops
- Web Development with HTML: Introduction and Basic Tags
- HTML and CSS: Styling and Layout

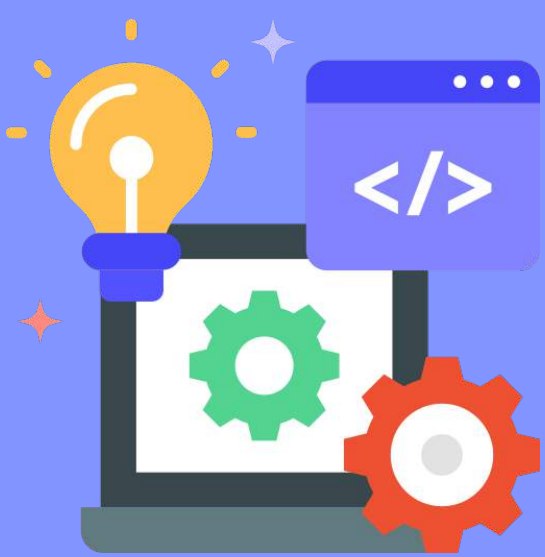
# Course Outline

## Web Development with HTML, CSS, JavaScript, and React:

- React.js: Introduction and Component-Based Architecture
- React.js: Handling Events and Managing State
- Building dynamic web applications using React
- Integrating HTML, CSS, and JavaScript into React web applications



## Python Programming



- Introduction to Python programming language
- Python Programming for Computer Graphics: Basic Drawing and Animation
- Python Programming for Computer Graphics: Transformations and Rotations
- Python Programming: File Handling and Data Structures



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# Course Outline

## Database Access with SQLite

- Python Programming: Database Access with MySQL and SQLAlchemy
- Web Development with GraphQL: Introduction and Basic Querying
- Web Development with Apollo: Client-Side Data Management and Caching
- Python Programming: Data Science with NumPy and SciPy



## Computer Graphics and Computer Vision with Python

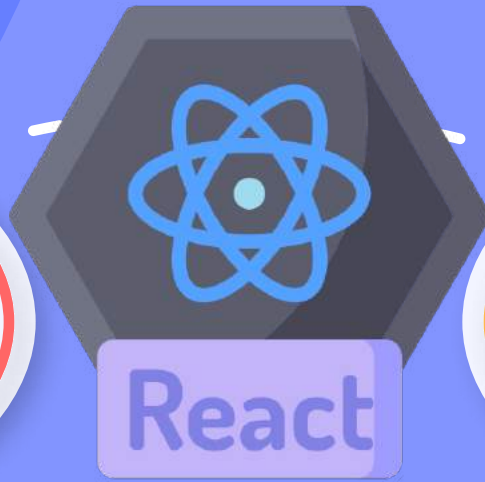


- Introduction to computer graphics and image processing
- Creating simple 2D graphics and animations using Python libraries
- Image processing and analysis using Python libraries
- HTML and CSS: CSS Frameworks and Design Systems

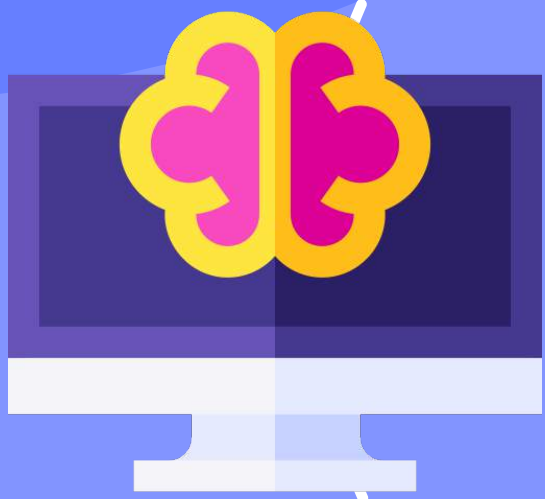


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ReactJs



Python Programming



# Learning Outcomes



Computer Vision

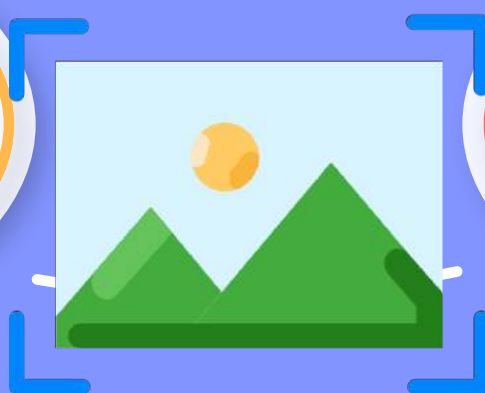
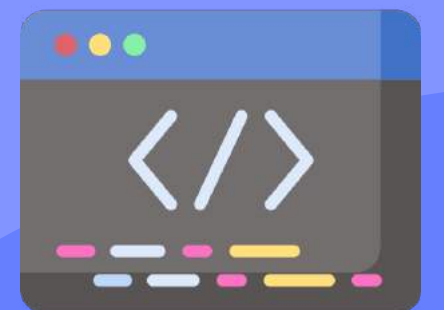


Image Processing

# Key Points

Get a refresher of programming language from previous years



Get a full understanding of front end and backend

Get started with one of the most revolutionizing languages: Python



Analyse and extract info from images using python