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10
Lectures

Course Outline

Review and Reinforcement

- Review of programming concepts from previous years

- Introduction to new programming concepts and tools

- Advanced Data Structures in Python

- Advanced OOP concepts in Python

Web Scraping with Python

django

SQL

- Introduction to Django framework for web development

- Advanced React development (e.g. routing, state management)

- Building RESTful APIs with Node.js and Express

- Introduction to SQL databases and queries

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Course Outline

Web Development with HTML, CSS, JavaScript, and React

- Building dynamic web applications using React

- Introduction to front-end and back-end web development

- Integrating HTML, CSS, and JavaScript into React web applications

- Building chat applications with WebSockets

Network Security and Encryption

- Introduction to Cybersecurity concepts and best practices

- Ethical Hacking and Penetration Testing

- Introduction to Operating Systems concepts and architecture

- Introduction to Linux OS and command line interface

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10+20 +30 Lectures
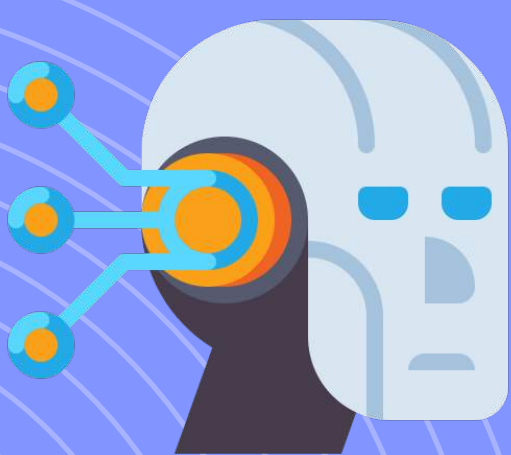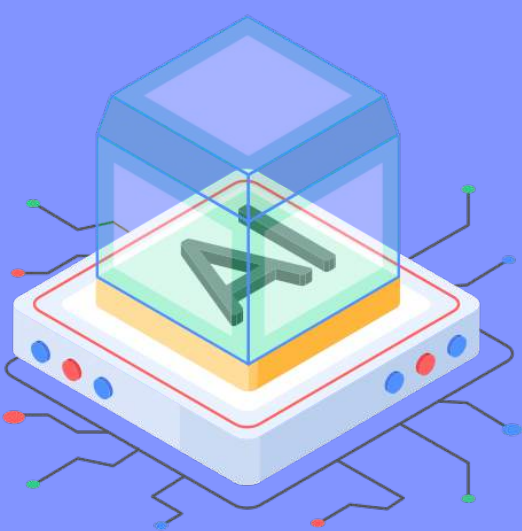
Course Outline

Data Science with Python

- Introduction to data science

- Use of Python libraries for data analysis and visualization

- Creating simple machine learning models
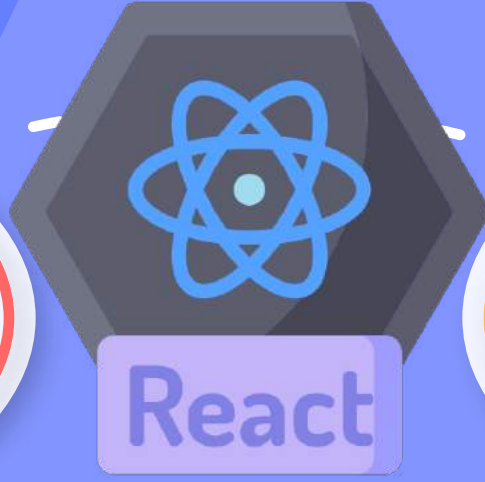
- Introduction to Serverless Computing

Artificial Intelligence and Machine Learning

- Introduction to artificial intelligence and machine learning

- Building machine learning models using Python libraries

- Understanding the basics of deep learning and neural networks

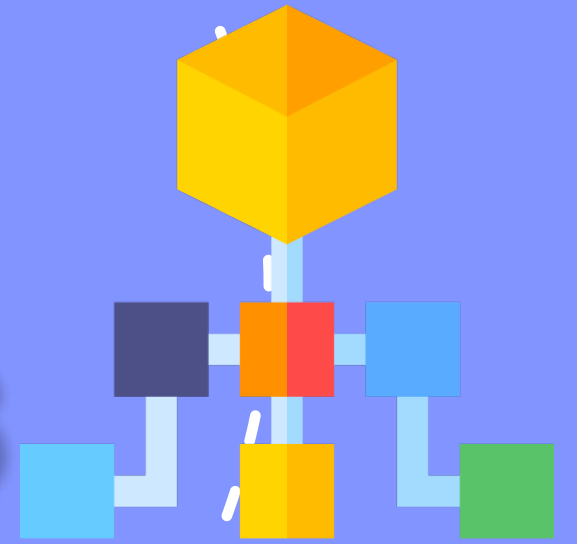- Building Serverless applications with GCP Cloud Functions

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ReactJs

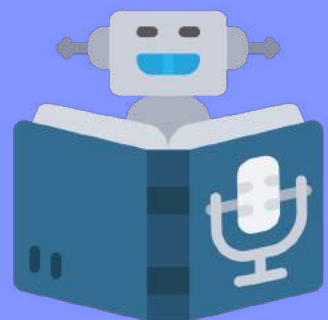**Data Structures and Algorithm**

Learning Outcomes

Deep Learning
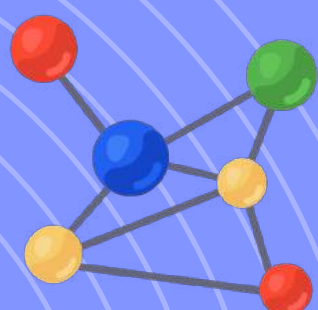
Blockchain Networks

Key Points

Strengthen your web dev skills

Hands on experience in Python and Machine Leanrning

Visualise data using code

use Tensorflow and build Neural networks

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