



Home

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People



Announcements



Modules



Discussions



Grades



Live Sessions



Support



▶ Programme Orientation	
	Complete All Items
▼ Module 1: Week 1: Fundamentals for Beginners	
	Module 1: Week 1: Introduction and Instructions Viewed
Video and Lab Resources	
	Video 1: Overview of Module 1 Viewed
	Video 2: Introduction to Programming Viewed
	Video 3: Working with Variables and Operators Viewed
	Video 4: Working with Control Flows Viewed
	Video 5: Working with Functions Viewed
	Video 6: Overview of Web Development Technologies Viewed
	Video 7: Introduction to Full-Stack Development Viewed
	Lab: Getting Started with Programming Viewed
	Video 8: Summary of Module 1 Viewed
Suggested Reading	
	Basic Environment Setup Viewed
	HTML: Creating the Content Viewed
	Introduction to JavaScript Viewed
	Module 1: Week 1: Supplementary Reading Viewed
Additional Resources	
	Module 1: Week 1: Transcripts and Summary Viewed
Assessment Test	
	 Module 1: Week 1: Required Quiz Apr 17 10 pts Submitted
	 Module 1: Week 1: Required Assignment Apr 17 20 pts Submitted
Weekly Discussion	
	 Module 1: Week 1: Q&A Discussion Board Contribute
Feedback Survey	
	 Module 1: Week 1: Feedback Survey Apr 17 Submitted

Module 2: Week 2: Introduction to Git		Complete All Items
 Module 2: Week 2: Introduction and Instructions	Viewed	
Video and Lab Resources		
 Video 1: Overview of Module 2	Viewed	
 Video 2: Overview of Version Control System	Viewed	
 Video 3: Introduction to Git and GitHub	Viewed	
 Video 4: Overview of a Git Repository	Viewed	
 Video 5: Tracking Changes to a Git Repository	Viewed	
 Video 6: Branching in Git	Viewed	
 Video 7: Basic Branching and Merging Operations	Viewed	
 Video 8: Merge Conflict Resolution	Viewed	
 Video 9: Working with a Remote Repository in GitHub	Viewed	
 Video 10: Summary of Module 2	Viewed	
 Lab: A Comprehensive Tutorial on Git		
Suggested Reading		
 Git: Downloads	Viewed	
 Git: Immersion	Viewed	
 Module 2: Week 2: Supplementary Reading	Viewed	
Additional Resources		
 Module 2: Week 2: Transcripts and Summary	Viewed	
Assessment Test		
 Module 2: Week 2: Required Quiz	Apr 24 10 pts Submitted	
 Module 2: Week 2: Required Assignment	Apr 24 20 pts Submitted	
Weekly Discussion		
 Module 2: Week 2: Q&A Discussion Board	Contribute	
Feedback Survey		
 Module 2: Week 2: Feedback Survey	Apr 24 Submit	

Module 3: Week 3: HTML and CSS Fundamentals		Complete All Items
 Module 3: Week 3: Introduction and Instructions	Viewed	
Video and Lab Resources		
 Video 1: Overview of Module 3	Viewed	
 Video 2: Structure & Syntax of HTML pages	Viewed	

	Video 3: Commonly Used HTML Tags	Viewed	
	Video 4: Working with URLs	Viewed	
	Video 5: Working with Form-Related Tags	Viewed	
	Video 6: Introduction to CSS	Viewed	
	Lab: Getting Started With CSS	Viewed	
	Video 7: Introduction to Document Object Model (DOM)	Viewed	
	Video 8: Basic CSS Selectors	Viewed	
	Video 9: Common CSS Properties	Viewed	
	Lab: Working With CSS	Viewed	
	Video 10: Summary of Module 3	Viewed	
Suggested Reading			
	CSS Styling Basics	Viewed	
	Structuring Content with HTML	Viewed	
	Get Started with Visual Studio Code	Viewed	
	Document Object Model (DOM)	Viewed	
	Module 3: Week 3: Supplementary Reading	Viewed	
Additional Resources			
	Module 3: Week 3: Transcripts and Summary	Viewed	
Assessment Test			
	Module 3: Week 3: Required Quiz	May 4 10 pts Submitted	
	Module 3: Week 3: Required Assignment	May 4 20 pts Submitted	
Weekly Discussion			
	Module 3: Week 3: Q&A Discussion Board	Contribute	
Feedback Survey			
	Module 3: Week 3: Feedback Survey	May 4 Submit	

	Module 4: Week 4: Intermediate HTML and CSS	Complete All Items	
	Module 4: Week 4: Introduction and Instructions	Viewed	
Video and Lab Resources			
	Video 1: Overview of Module 4	Viewed	
	Video 2: Semantic HTML5 Elements	Viewed	
	Video 3: Advanced CSS Selectors		

Viewed	
Video 4: Generating Basic Layout using CSS	Viewed
Video 5: CSS Flexbox	Viewed
Video 6: CSS Grid	Viewed
Video 7: Introduction to Responsive Design	Viewed
Lab: Intermediate CSS	Viewed
Video 8: Working with Frontend Frameworks and Templates	Viewed
Video 9: Summary of Module 4	Viewed
Suggested Reading	
CSS Flexbox	View
CSS Grid	View
Responsive Design	View
CSS Pseudo-classes	View
CSS Transition	View
Module 4: Week 4: Supplementary Reading	View
Additional Resources	
Module 4: Week 4: Transcripts and Summary	Viewed
Assessment Test	
Module 4: Week 4: Required Quiz May 11 10 pts Submitted	✓
Module 4: Week 4: Required Assignment May 11 20 pts Submitted	✓
Weekly Discussion	
Module 4: Week 4: Q&A Discussion Board Contribute	○
Feedback Survey	
Module 4: Week 4: Feedback Survey May 11 Submit	○

▼ Module 5: Week 5: Introduction to JavaScript	Complete All Items	
Module 5: Week 5: Introduction and Instructions	Viewed	✓
Video and Lab Resources		
Video 1: Overview of Module 5	Viewed	✓
Video 2: Introduction to JavaScript	Viewed	✓
Video 3: Variables, Data Types, and Operators in JavaScript	Viewed	✓
Lab: Installation Guide	Viewed	✓
Lab: Variables, Data Types, and Operators in JavaScript		

 Lab: Variables, Data Types and Operators in JavaScript	Viewed	✓
 Video 4: Conditional Control Flow with JavaScript	Viewed	✓
 Lab: Conditional Control Flow with JavaScript	Viewed	✓
 Video 5: Iterative Control Flow with JavaScript	Viewed	✓
 Lab: Iterative Control Flow with JavaScript	Viewed	✓
 Video 6: JavaScript Functions and Scope	Viewed	✓
 Video 7: Basic Data Structures in JavaScript	Viewed	✓
 Lab: Summary Exercises on JavaScript Programming Methodology	Viewed	✓
 Video 8: Overview of DOM Programming Interface	Viewed	✓
 Video 9: Basic DOM Manipulation with JavaScript	Viewed	✓
 Lab: Manipulating DOM with JavaScript	Viewed	✓
 Video 10: Summary of Module 5	Viewed	✓
Suggested Reading		
 Variable Declaration and Data Types	View	○
 Conditional Statements in JavaScript	View	○
 Loops and Arrays	View	○
 Functions	View	○
 Module 5: Week 5: Supplementary Reading	View	○
Additional Resources		
 Module 5: Week 5: Transcripts and Summary	View	○
Assessment Test		
 Module 5: Week 5: Required Quiz	May 18 10 pts Submitted	✓
 Module 5: Week 5: Required Assignment	May 18 20 pts Submitted	✓
Weekly Discussion		
 Module 5: Week 5: Q&A Discussion Board	Contribute	○
Feedback Survey		
 Module 5: Week 5: Feedback Survey	May 18 Submit	○

▼ Module 6: Week 6: Introduction to Python—Part 1	Complete All Items	
 Module 6: Week 6: Introduction and Instructions	Viewed	✓
Video and Lab Resources		
 Video 1: Overview of Module 6 (Week 6)	Viewed	✓

	Video 2: Introduction to Python	<input checked="" type="checkbox"/>
	Viewed	
	Video 3: Variables, Data Types, and Operators in Python	<input checked="" type="checkbox"/>
	Viewed	
	Video 4: Basic Input and Output with Python	<input checked="" type="checkbox"/>
	Viewed	
	Lab: Software Installation Module 6	<input checked="" type="checkbox"/>
	Viewed	
	Lab: Variables, Data Types and Operators in Python Basic Input and Output with Python	<input checked="" type="checkbox"/>
	Viewed	
	Video 5: Conditional Control Flow with Python	<input checked="" type="checkbox"/>
	Viewed	
	Lab: Conditional Control Flow with Python	<input checked="" type="checkbox"/>
	Viewed	
	Video 6: Iterative Control Flow with Python	<input checked="" type="checkbox"/>
	Viewed	
	Lab: Iterative Control Flow with Python	<input checked="" type="checkbox"/>
	Viewed	
	Video 7: Python Functions	<input checked="" type="checkbox"/>
	Viewed	
	Video 8: Basic Data Structures in Python - Part 1	<input checked="" type="checkbox"/>
	Viewed	
	Video 9: Basic Data Structures in Python - Part 2	<input checked="" type="checkbox"/>
	Viewed	
	Lab: Summary Exercises on Python Programming Methodology	<input checked="" type="checkbox"/>
	Viewed	
	Video 10: Limitations of Python Basic Data Structure	<input checked="" type="checkbox"/>
	Viewed	
	Video 11: Summary of Module 6 (Week 6)	<input checked="" type="checkbox"/>
	Viewed	
Suggested Reading		
	What is Google Colab?	<input type="radio"/>
	View	
	What is Jupyter Notebook?	<input type="radio"/>
	View	
	Google Collab vs Jupyter Notebook	<input type="radio"/>
	View	
	Module 6: Week 6: Supplementary Reading	<input type="radio"/>
	View	
Additional Resources		
	Module 6: Week 6: Transcripts and Summary	<input type="radio"/>
	View	
Assessment Test		
	Module 6: Week 6: Required Quiz	<input checked="" type="checkbox"/>
	May 25 10 pts Submitted	
	Module 6: Week 6: Required Assignment	<input checked="" type="checkbox"/>
	May 25 20 pts Submitted	
Weekly Discussion		
	Module 6: Week 6: Q&A Discussion Board	<input type="radio"/>
	Contribute	

	Module 6: Week 7: Introduction to Python—Part 2	Complete All Items	
	Module 6: Week 7: Introduction and Instructions	<input checked="" type="checkbox"/>	
Video and Lab Resources			
	Video 1: Introduction to Python Libraries	<input checked="" type="checkbox"/>	
	Viewed		

	Video 2: Overview of Python Libraries for Data Science and AI	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 3: Introduction to NumPy ndarray	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 4: Data Processing with NumPy ndarray	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Lab: NumPy	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 5: Introduction to Pandas Series	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 6: Introduction to Pandas DataFrame	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 7: Data Preparation with Pandas DataFrame	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Lab: Pandas	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 8: Introduction to Matplotlib	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 9: Data Visualisation with Matplotlib	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Lab: Data Visualisation	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 10: Summary of Module 6 (Week 7)	<small>Viewed</small>	<input checked="" type="checkbox"/>
Suggested Reading			
	Module 6: Week 7: Supplementary Reading	<small>Viewed</small>	<input checked="" type="checkbox"/>
Additional Resources			
	Module 6: Week 7: Transcripts and Summary	<small>View</small>	<input type="radio"/>
Assessment Test			
	Module 6: Week 7: Required Quiz	<small>Jun 1 10 pts Submitted</small>	<input checked="" type="checkbox"/>
	Module 6: Week 7: Required Assignment	<small>Jun 1 20 pts Submitted</small>	<input checked="" type="checkbox"/>
Weekly Discussion			
	Module 6: Week7: Q&A Discussion Board	<small>Contributed</small>	<input checked="" type="checkbox"/>
Feedback Survey			
	Module 6: Feedback Survey	<small>Jun 1 Submit</small>	<input type="radio"/>

	Module 7: Week 8: Frontend Frameworks	Complete All Items	
	Module 7: Week 8: Introduction and Instructions	<small>Viewed</small>	<input checked="" type="checkbox"/>
Video and Lab Resources			
	Video 1: Overview of Module 7	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 2: Introduction to Frontend Frameworks	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 3: Traditional Approach to Frontend Development	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 4: Modern Approach to Frontend Development	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 5: Component-Based Design	<small>Viewed</small>	<input checked="" type="checkbox"/>

Viewed	
Video 6: Declarative Approach to Development Viewed	✓
Video 7: Single-Page Applications Viewed	✓
Video 8: Getting Started with Frontend Development Frameworks Viewed	✓
Lab: Appreciating Frontend Development Approaches Viewed	✓
Video 9: Summary of Module 7 Viewed	✓
Suggested Reading	
What is CodeSandbox? View	○
What is Node.js? View	○
What is Visual Studio Code? View	○
Module 7: Week 8: Supplementary Reading View	○
Additional Resources	
Module 7: Week 8: Transcripts and Summary View	○
Assessment Test	
Module 7: Week 8: Required Quiz Jun 8 10 pts Submitted	✓
Module 7: Week 8: Required Assignment Jun 8 20 pts Submitted	✓
Weekly Discussion	
Module 7: Week 8: Q&A Discussion Board Contribute	○
Feedback Survey	
Module 7: Week 8: Feedback Survey Jun 8 Submit	○

▼ Module 8: Week 9: Working with React—Part 1	Complete All Items	
Module 8: Week 9: Introduction and Instructions Viewed	✓	
Video and Lab Resources		
Video 1: Overview of Module 8 Viewed	✓	
Video 2: Introduction to React Viewed	✓	
Video 3: Working with React Props Viewed	✓	
Video 4: ES6 Module System and Organising React Applications Viewed	✓	
Video 5: Modern ES6 Constructs Viewed	✓	
Video 6: Hands-on Exercise: Building a Profile Viewer Viewed	✓	
Lab: Building a Profile Viewer Viewed	✓	
Suggested Reading		
React: Quick Start Guide	✓	

Viewed	
How to use React functional components Viewed	✓
Module 8: Week 9: Supplementary Reading Viewed	✓
Additional Resources	
Module 8: Week 9: Transcripts and Summary Viewed	✓
Assessment Test	
Module 8: Week 9: Required Quiz Jun 15 10 pts Submitted	✓
Module 8: Week 9: Required Assignment Jun 15 20 pts Submitted	✓
Weekly Discussion	
Module 8: Week 9: Q&A Discussion Board Contribute	○

Module 8: Week 10: Working with React—Part 2	Complete All Items	○
Module 8: Week 10: Introduction and Instructions Viewed	✓	
Video and Lab Resources		
Video 1: Working with React Events Viewed	✓	
Video 2: Working with React Hooks and States Viewed	✓	
Video 3: Controlled vs. Uncontrolled Components Viewed	✓	
Video 4: Asynchronous JavaScript and XML (AJAX) Viewed	✓	
Video 5: Working with useEffect Hooks Viewed	✓	
Lab: AJAX, React useEffect Hook, and Vite Viewed	✓	
Video 6: Working with useRef and Rules of Hooks Viewed	✓	
Video 7: React Router Viewed	✓	
Video 8: Create React App Viewed	✓	
Video 9: Summary of Module 8 Viewed	✓	
Suggested Reading		
Handling Events in React Viewed	✓	
React Hooks Viewed	✓	
Asynchronous Data Fetching with AJAX View	○	
Module 8: Week 10: Supplementary Reading View	○	
Additional Resources		
Module 8: Week 10: Transcripts and Summary View	○	
Assessment Test		
Module 8: Week 10: Required Quiz	✓	

Jun 22 10 pts Viewed	
Module 8: Week 10: Required Assignment Jun 22 20 pts Submitted	✓
Weekly Discussion	
Module 8: Week 10: Q&A Discussion Board Contribute	○
Feedback Survey	
Module 8: Feedback Survey Jun 22 Submit	○

▼ Module 9: Week 11: Relational Databases and SQL	Complete All Items
Module 9: Week 11: Introduction and Instructions Viewed	✓
Video and Lab Resources	
Lab: Installation Guide to MYSQL Community Server Edition Viewed	✓
Video 1: Overview of Module 9 Viewed	✓
Video 2: Introduction to Database Systems Viewed	✓
Video 3: Database Modelling and Data Model Viewed	✓
Video 4: The Relational Database Model Viewed	✓
Video 5: Build Your Database and Create an ERD Viewed	✓
Lab: Database Schema Design and Tables (DDL) Viewed	✓
Video 6: Write SQL Data Manipulation Language Viewed	✓
Lab: Write SQL Data Manipulation Language Viewed	✓
Video 7: Write Advanced SELECT Queries Viewed	✓
Video 8: Write SQL Joins to Combine Data From Multiple Tables Viewed	✓
Lab: Write SQL Joins Viewed	✓
Video 9: Summary of Module 9 Viewed	✓
Suggested Reading	
Basics of Database Modelling Viewed	✓
Basic SQL Commands View	○
SQL Joins for Data Aggregation View	○
SQL Data Manipulation Language View	○
Module 9: Week 11: Supplementary Reading View	○
Additional Resources	
Module 9: Week 11: Transcripts and Summary View	○
Assessment Test	
Module 9: Week 11: Required Quiz	○

	Module 9: Week 11 Required Quiz Jun 29 10 pts Submitted	
	Module 9: Week 11: Required Assignment Jun 29 20 pts Submitted	
Weekly Discussion		
	Module 9: Week 11: Q&A Discussion Board Contribute	
Feedback Survey		
	Module 9: Week 11: Feedback Survey Jun 29 Submit	

	Module 10: Week 12: Introduction to Backend Development	Complete All Items
	Module 10: Week 12: Introduction and Instructions Viewed	
Video and Lab Resources		
	Lab: Software Installation Viewed	
	Video 1: Overview of Module 10 Viewed	
	Video 2: Backend Software Engineering with JavaScript and Python Viewed	
	Video 3: Introduction to Node.js and Express.js Viewed	
	Video 4: Server-Side Web Application Development with Express.js Viewed	
	Video 5: Using the Pug Template Engine with Express.js Viewed	
	Video 6: Creating Database-driven Web Application with Express.js Viewed	
	Lab: Creating a Complete Web Application with Express.js Viewed	
	Video 7: Introduction to Flask Viewed	
	Video 8: Server-Side Web Application Development with Flask Viewed	
	Video 9: Using the Jinja2 Template Engine with Flask Viewed	
	Video 10: Creating Database-driven Web Application with Flask Viewed	
	Lab: Creating a Complete Web Application with Flask Viewed	
	Video 11: Summary of Module 10 Viewed	
Suggested Reading		
	Using Template Engines with Express Viewed	
	How to Create a Basic CRUD API using Python Flask View	
	Flask with Jinja2 Template Engine View	
	Serving Static Files in Express View	
	Flask Session Management View	
	Module 10: Week 12: Supplementary Reading View	
Additional Resources		

 Module 10: Week 12: Transcripts and Summary	View	<input type="radio"/>
Assessment Test		
 Module 10: Week 12: Required Quiz	Jul 6 10 pts Submitted	<input checked="" type="checkbox"/>
 Module 10: Week 12: Required Assignment	Jul 6 20 pts Submitted	<input checked="" type="checkbox"/>
Weekly Discussion		
 Module 10: Week 12: Q&A Discussion Board	Contribute	<input type="radio"/>
Feedback Survey		
 Module 10: Week 12: Feedback Survey	Jul 6 Submit	<input checked="" type="checkbox"/>

 Module 11: Week 13: Non-relational Databases and MongoDB	Complete All Items	<input checked="" type="checkbox"/>
Module 11: Week 13: Introduction and Instructions		
 Viewed		<input checked="" type="checkbox"/>
Video and Lab Resources		
 Lab: Setting Up a MongoDB Atlas Account and Free Cluster	Viewed	<input checked="" type="checkbox"/>
 Video 1: Overview of Module 11	Viewed	<input checked="" type="checkbox"/>
 Video 2: Introduction to NoSQL Databases	Viewed	<input checked="" type="checkbox"/>
 Video 3: Basics of Document-Based Databases	Viewed	<input checked="" type="checkbox"/>
 Video 4: Set Up MongoDB Environment for NoSQL Database	Viewed	<input checked="" type="checkbox"/>
 Lab: Setting Up a Movies Database	Viewed	<input checked="" type="checkbox"/>
 Video 5: Insert and Find Documents	Viewed	<input checked="" type="checkbox"/>
 Video 6: Query Documents and Query Operators	Viewed	<input checked="" type="checkbox"/>
 Lab: Query Database in MongoDB Atlas	Viewed	<input checked="" type="checkbox"/>
 Video 7: Query Arrays and Nested Documents	Viewed	<input checked="" type="checkbox"/>
 Lab: Projecting Nested Object Fields	Viewed	<input checked="" type="checkbox"/>
 Video 8: Update and Delete Documents	Viewed	<input checked="" type="checkbox"/>
 Video 9: Connecting to Mongoose Driver in Backend	Viewed	<input checked="" type="checkbox"/>
 Lab: Implement a Working Express Server and a User Model with Mongoose	Viewed	<input checked="" type="checkbox"/>
 Video 10: Summary of Module 11	Viewed	<input checked="" type="checkbox"/>
Suggested Reading		
 MongoDB Connections	View	<input type="radio"/>
 What Is NoSQL?	View	<input type="radio"/>
 Module 11: Week 13: Supplementary Reading	View	<input type="radio"/>
Additional Resources		

 Module 11: Week 13: Transcripts and Summary	View	<input type="radio"/>
Assessment Test		
 Module 11: Week 13: Required Quiz	Jul 13 10 pts Submitted	<input checked="" type="checkbox"/>
 Module 11: Week 13: Required Assignment	Jul 13 20 pts Submitted	<input checked="" type="checkbox"/>
Weekly Discussion		
 Module 11: Week 13: Q&A Discussion Board	Contribute	<input type="radio"/>
Feedback Survey		
 Module 11: Week 13: Feedback Survey	Jul 13 Submit	<input checked="" type="checkbox"/>

 Module 12: Week 14: RESTful API Development	Complete All Items	<input checked="" type="checkbox"/>
Module 12: Week 14: Introduction and Instructions		
 Viewed		<input checked="" type="checkbox"/>
Video and Lab Resources		
 Video 1: Overview of Module 12	Viewed	<input checked="" type="checkbox"/>
 Video 2: Overview of Service-Oriented Architecture (SOA) and Microservices Architecture	Viewed	<input checked="" type="checkbox"/>
 Video 3: Introduction to RESTful Web Services	Viewed	<input checked="" type="checkbox"/>
 Video 4: Introduction to JSON	Viewed	<input checked="" type="checkbox"/>
 Video 5: Best Practices in RESTful API Design	Viewed	<input checked="" type="checkbox"/>
 Video 6: Creating RESTful API Endpoints with Express.js	Viewed	<input checked="" type="checkbox"/>
 Lab: Creating RESTful API Endpoints with Express.js	Viewed	<input checked="" type="checkbox"/>
 Video 7: Testing RESTful API Endpoints with Postman	Viewed	<input checked="" type="checkbox"/>
 Video 8: Creating RESTful API Endpoints with Flask and Connexion	Viewed	<input checked="" type="checkbox"/>
 Lab: Creating RESTful API Endpoints with Flask and Connexion	Viewed	<input checked="" type="checkbox"/>
 Video 9: Summary of Module 12	Viewed	<input checked="" type="checkbox"/>
Suggested Reading		
 How to Design a REST API?	View	<input type="radio"/>
 Test the API with Postman	View	<input type="radio"/>
 Best Practices for API Error Handling	View	<input type="radio"/>
 Module 12: Week 14: Supplementary Reading	View	<input type="radio"/>
Additional Resources		
 Module 12: Week 14: Transcripts and Summary	View	<input type="radio"/>
Assessment Test		
 Module 12: Week 14: Required Quiz	Jul 20 10 pts Submitted	<input checked="" type="checkbox"/>

	Module 12: Week 14: Required Assignment Jul 20 20 pts Submitted	<input checked="" type="checkbox"/>
Weekly Discussion		
	Module 12: Week 14: Q&A Discussion Board Contribute	<input type="radio"/>
Feedback Survey		
	Module 12: Week 14: Feedback Survey Jul 20 Submit	<input checked="" type="radio"/>

	Module 13: Week 15: Introduction to Artificial Intelligence and Machine Learning	Complete All Items	<input checked="" type="checkbox"/>
Module 13: Week 15: Introduction and Instructions			<input checked="" type="checkbox"/>
	Viewed		
Video and Lab Resources			
	Video 1: Overview of Module 13 Viewed		<input checked="" type="checkbox"/>
	Video 2: What is Artificial Intelligence (AI)? Viewed		<input checked="" type="checkbox"/>
	Video 3: Branches of AI Viewed		<input checked="" type="checkbox"/>
	Video 4: Landmark Achievements in AI Viewed		<input checked="" type="checkbox"/>
	Video 5: What is Machine Learning (ML)? Viewed		<input checked="" type="checkbox"/>
	Video 6: What are the Types of ML Algorithms? Viewed		<input checked="" type="checkbox"/>
	Video 7: Overview of Python Libraries for ML and DL Viewed		<input checked="" type="checkbox"/>
	Lab: Using Google Colab for Beginners Viewed		<input checked="" type="checkbox"/>
	Video 8: Summary of Module 13 Viewed		<input checked="" type="checkbox"/>
Suggested Reading			
	Linear Regression in Python with Scikit-Learn (Optional) View		<input type="radio"/>
	A Demo of K-Means Clustering (Optional) View		<input type="radio"/>
	Module 13: Week 15: Supplementary Reading View		<input type="radio"/>
Additional Resources			
	Module 13: Week 15: Transcripts and Summary View		<input type="radio"/>
Assessment Test			
	Module 13: Week 15: Required Quiz Jul 27 25 pts Submitted		<input checked="" type="checkbox"/>
	Module 13: Week 15: Required Assignment Jul 27 10 pts Submitted		<input checked="" type="checkbox"/>
Weekly Discussion			
	Module 13: Week 15: Q&A Discussion Board Contribute		<input type="radio"/>
Feedback Survey			
	Module 13: Week 15: Feedback Survey Jul 27 Submit		<input checked="" type="radio"/>

▼ Module 14: Week 16: Introduction to ANN		Complete All Items	
Module 14: Week 16: Introduction and Instructions Viewed			
Video and Lab Resources			
Video 1: Overview of Module 14 Viewed			
Video 2: What is a Neural Network (NN)? Viewed			
Video 3: What is a Neuron in an Artificial Neural Network? Viewed			
Video 4: What are the Different Activation Functions in ANN? Viewed			
Video 5: What is a Single-Layer Neural Network (Perceptron)? Viewed			
Video 6: What is a Multi-Layer Neural Network? Viewed			
Video 7: Implement a Simple Neural Network in Python Using Keras Library Viewed			
Lab: Regression using ANN Viewed			
Lab: Classification using ANN Viewed			
Suggested Reading			
Introduction to Deep Learning with PyTorch (Optional) View			
Neural Networks in PyTorch (Optional) View			
Training Neural Networks (Optional) View			
Implementing Neural Networks (Optional) View			
Step-by-Step Keras Tutorial View			
Module 14: Week 16: Supplementary Reading View			
Additional Resources			
Module 14: Week 16: Transcripts and Summary View			
Assessment Test			
Module 14: Week 16: Required Assignment Aug 3 30 pts Submitted			
Weekly Discussion			
Feedback Survey			
Module 14: Week 16: Q&A Discussion Board Contribute			
Module 14: Week 16: Feedback Survey Aug 3 Submit			

▼ Module 15: Week 17: Introduction to Deep Learning		Complete All Items	
Module 15: Week 17: Introduction and Instructions Viewed			
Video and Lab Resources			
Video 1: Overview of Module 15 Viewed			

 Video 2: What is Deep Learning?	Viewed	
 Video 3: Application of Deep Learning for Computer Vision	Viewed	
 Video 4: Deep Learning for Computer Vision	Viewed	
 Video 5: What is Convolutional Neural Network (CNN)?	Viewed	
 Video 6: Keras Example for Object Classification	Viewed	
 Lab: Image Classification using CNN	Viewed	
 Video 7: Application of Deep Learning for NLP	Viewed	
 Video 8: Deep Learning for NLP, What is RNN and How it Works?	Viewed	
 Video 9: Keras Example for Text Classification	Viewed	
 Lab: Text Classification using LSTM	Viewed	
 Video 10: Summary of Module 15	Viewed	
Suggested Reading		
 How to build LSTM neural networks in Keras (Optional)	View	
 How to Classify Data In Python using Scikit-learn (Optional)	View	
 Module 15: Week 17: Supplementary Reading	View	
Additional Resources		
 Module 15: Week 17: Transcripts and Summary	View	
Assesment Test		
 Module 15: Week 17: Required Quiz	Aug 10 10 pts Submitted	
 Module 15: Week 17: Required Assignment	Aug 10 20 pts Submitted	
Weekly Discussion		
 Module 15: Week 17: Q&A Discussion Board	Contribute	
Feedback Survey		
 Module 15: Week 17: Feedback Survey	Aug 10 Submit	

 Module 16: Week 18: Integrating AI Models into Full Stack Applications	Complete All Items	
 Module 16: Week 18: Introduction and Instructions	Viewed	
Video and Lab Resources		
 Video 1: Overview of Module 16	Viewed	
 Video 2: Overview of Model Persistence and Serving	Viewed	
 Video 3: Saving and Loading scikit-learn Models	Viewed	
 Video 4: Saving and Loading Keras Models	Viewed	

	Video 5: Serving Models via RESTful API Endpoints Using Python with Flask and Connexion	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 6: Consuming RESTful API Endpoints from a React Web Application	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 7: Consuming RESTful API Endpoints from an Express.js Backend	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 8: Consuming RESTful API Endpoints from a Flask Backend	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Lab: Serving and Consuming ML Models Using API Endpoints	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 9: Serving a Model using MLflow	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Lab: Hands-on MLflow	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 10: Summary of Module 16	<small>Viewed</small>	<input checked="" type="checkbox"/>
Suggested Reading			
	Getting Started with Python HTTP Requests for REST APIs	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Serving MLflow models	<small>View</small>	<input type="radio"/>
	Module 16: Week 18: Supplementary Reading	<small>View</small>	<input type="radio"/>
Additional Resources			
	Module 16: Week 18: Transcripts and Summary	<small>View</small>	<input type="radio"/>
Assessment Test			
	Module 16: Week 18: Required Quiz	<small>Aug 17 10 pts Submitted</small>	<input checked="" type="checkbox"/>
	Module 16: Week 18: Required Assignment	<small>Aug 17 20 pts Submitted</small>	<input checked="" type="checkbox"/>
Weekly Discussion			
	Module 16: Week 18: Q&A Discussion Board	<small>Contribute</small>	<input type="radio"/>
Feedback Survey			
	Module 16: Week 18: Feedback Survey	<small>Aug 17 Submit</small>	<input type="radio"/>

	Module 17: Week 19: Introduction to AI-Driven Features	Complete All Items	<input type="button" value="(-)"/>
	Module 17: Week 19: Introduction and Instructions	<small>Viewed</small>	<input checked="" type="checkbox"/>
Video and Lab Resources			
	Setup Guide: Getting Started with Google Colab	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 1: Overview of Module 17	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 2: Introduction to Recommendation Systems	<small>Viewed</small>	<input checked="" type="checkbox"/>
	Video 3: Preliminary Mathematical Considerations of Recommendation Systems	<small>View</small>	<input type="radio"/>
	Video 4: Content-Based Recommender Systems	<small>View</small>	<input type="radio"/>
	Video 5: Building Content-Based Recommender System: Data Preprocessing and Exploration	<small>View</small>	<input type="radio"/>
	Video 6: Building Content-Based Recommender System: Feature Extraction and Finder Function	<small>View</small>	<input type="radio"/>

 Lab: Content-Based Filtering Exercise	View	<input type="radio"/>
 Video 7: Collaborative-Based Filtering Recommender	View	<input type="radio"/>
 Video 8: Building Collaborative Filtering: User Item and Sparse Matrix	View	<input type="radio"/>
 Video 9: Building Collaborative User-Item Rating Filtering Using k-Nearest Neighbours	View	<input type="radio"/>
 Lab: Collaborative Filtering and Matrix Factorisation	View	<input type="radio"/>
 Video 10: Summary of Module 17	View	<input type="radio"/>
Suggested Reading		
 Neighborhood-Based Collaborative Filtering	View	<input type="radio"/>
 Evaluating Recommender Systems	View	<input type="radio"/>
 Module 17: Week 19: Supplementary Reading	View	<input type="radio"/>
Additional Resources		
 Module 17: Week 19: Transcripts and Summary	View	<input type="radio"/>
Assessment Test		
 Module 17: Week 19: Required Quiz	<small>Aug 24 10 pts Submitted</small>	<input checked="" type="checkbox"/>
 Module 17: Week 19: Required Assignment	<small>Aug 24 20 pts Submitted</small>	<input checked="" type="checkbox"/>
Weekly Discussion		
 Module 17: Week 19: Q&A Discussion Board	Contribute	<input type="radio"/>
Feedback Survey		
 Module 17: Week 19: Feedback Survey	<small>Aug 24 Submit</small>	<input checked="" type="checkbox"/>

 Module 18: Week 20: Performance Optimisation and Scalability	Complete All Items	<input type="radio"/>
 Module 18: Week 20: Introduction and Instructions	View	<input type="radio"/>
Video and Lab Resources		
 Video 1: Overview of Module 18	View	<input type="radio"/>
 Video 2: Optimising AI Model Performance	View	<input type="radio"/>
 Video 3: Scaling Strategies and Database Optimisation	View	<input type="radio"/>
 Video 4: Caching and Load Balancing	View	<input type="radio"/>
 Video 5: Asynchronous Processing and Message Queues	View	<input type="radio"/>
 Video 6: Monitoring and Performance Analysis	View	<input type="radio"/>
 Video 7: Load Testing Fundamentals and Analysis	View	<input type="radio"/>
 Video 8: Summary of Module 18	View	<input type="radio"/>
 Lab: Exploring and Using CDNs	View	<input type="radio"/>

Suggested Reading		
 Model Optimisation Techniques	View	<input type="radio"/>
 AI Strategy – Scaling and Optimising AI	View	<input type="radio"/>
 Module 18: Week 20: Supplementary Reading	View	<input type="radio"/>
Additional Resources		
 Module 18: Week 20: Transcripts and Summary	View	<input type="radio"/>
Assessment Test		
 Module 18: Week 20: Required Quiz	Aug 31 10 pts Submitted	
 Module 18: Week 20: Required Assignment	Aug 31 20 pts Submitted	
Weekly Discussion		
 Module 18: Week 20: Q&A Discussion Board	Contribute	<input type="radio"/>
Feedback Survey		
 Module 18: Week 20: Feedback Survey	Aug 31 Submit	

Module 19: Week 21: Generative AI Application—Part 1		
		Complete All Items 
 Module 19: Week 21: Introduction and Instructions	View	<input type="radio"/>
Video and Lab Resources		
 Video 1: Overview of Module 19	View	<input type="radio"/>
 Video 2: Benefits and Use Cases of Generative AI in Full-stack Applications	View	<input type="radio"/>
 Video 3: Advanced Generative AI Applications	View	<input type="radio"/>
 Video 4: Generative AI in Software Development	View	<input type="radio"/>
 Video 5: Evolution of Language Models: From Traditional to Transformers	View	<input type="radio"/>
 Video 6: Milestones in Large Language Models (LLMs)	View	<input type="radio"/>
 Video 7: Optimising LLM Outputs: Prompts and Parameters	View	<input type="radio"/>
 Video 8: Fine-tuning LLMs	View	<input type="radio"/>
 Lab: Exploring LLM Behaviour with a Playground (Parts 1 and 2)	View	<input type="radio"/>
Suggested Reading		
 The Evolution of Language Models: A Journey Through Time	View	<input type="radio"/>
 Module 19: Week 21: Supplementary Reading	View	<input type="radio"/>
Additional Resources		
 Module 19: Week 21: Transcripts and Summary	View	<input type="radio"/>
Assessment Test		

	Module 19 Week 21: Required Quiz Sep 7 10 pts Submitted	
	Module 19: Week 21: Required Assignment Sep 7 20 pts Submitted	
Weekly Discussion		
	Module 19: Week 21: Q&A Discussion Board Contribute	

	Module 19: Week 22: Generative AI Application—Part 2	
Module 19: Week 22: Introduction and Instructions		
	Video 1: Introduction to LLM Selection and AI Agents View	
Video and Lab Resources		
	Video 2: LLM Performance and Benchmarks View	
	Video 3: Evaluating LLM Requirements for Specific Use Cases View	
	Video 4: LLM Deployment Considerations View	
	Video 5: Combining Multiple LLMs for Complex Applications View	
	Video 6: Introduction to AI-Powered Software Development View	
	Video 7: Features of Autonomous AI Software Engineers View	
	Video 8: Pros and Cons of Autonomous AI Agents in Software Development View	
	Video 9: Summary of Module 19 View	
	Lab: Exploring LLM Behaviour with a Playground (Part 3) View	
Suggested Reading		
	A Survey on Large Language Model View	
	Module 19: Week 22: Supplementary Reading View	
Additional Resources		
	Module 19: Week 22: Transcripts and Summary View	
Assessment Test		
	Module 19 Week 22: Required Quiz Sep 14 10 pts Submitted	
	Module 19: Week 22: Required Assignment Sep 14 20 pts Submitted	
Weekly Discussion		
	Module 19: Week 22: Q&A Discussion Board Contribute	
Feedback Survey		
	Module 19: Feedback Survey Sep 14 Submit	

	CAPSTONE PROJECT (Weeks 23 and 24) ★★	
Capstone Details		

▼ Programme Feedback Survey	Complete All Items
 Post-Course Survey Sep 25 Submit	<input type="radio"/>

▼ Programme Completion Requirements	Complete All Items
 Survey- Name on Certificate of Completion Sep 25 Submitted	<input checked="" type="radio"/>