**Introduction to Python**

1. What is Python?
   1. Installing Python
   2. Python Shell vs. Scripting
   3. Python IDEs
2. Data Types and Variables
   1. Integers, Floats, Strings, Booleans
   2. Type Conversion
   3. Variables and Assignment
3. Basic Operators
   1. Arithmetic Operators
   2. Comparison Operators
   3. Logical Operators
4. Control Structures
   1. Conditional Statements (if, elif, else)
   2. Loops (for, while)
   3. break, continue, and pass
5. Basic Data Structures
   1. Lists
   2. Tuples
   3. Sets
   4. Dictionaries
6. Functions
   1. Defining and Calling Functions
   2. Arguments and Return Values
   3. Local and Global Variables
7. Modules and Packages
8. Importing Modules
9. Exploring the Standard Library

**Introduction to AI**

1. What is AI?
   1. AI vs. Traditional Programming
   2. AI vs. Automation
2. Steps for Building AI From Scratch
   1. Step 1: Identifying the Problem & Defining Goals. ...
   2. Step 2: Data Collection & Preparation. ...
   3. Step 3: Selection of Tools & Platforms. ...
   4. Step 4: Algorithm Creation or Model Selection. ...
   5. Step 5: Training the Algorithm or Model. ...
   6. Step 6: Evaluation of the AI System. ...