

PYTHON (BEGINNER)

Embark on a coding journey that introduces the essentials of Python, one of the most versatile programming languages, through engaging problem-solving activities and practical applications.



CORE FEATURES

- **Python Fundamentals:** Focused on introducing Python and programming concept implementation with help of projects.
- **Project Based Learning:** Learn coding by making simple projects and programs.
- **30 Sessions, 30+ Quizzes, Activities and Projects.**

CONCEPTS COVERED

Algorithmic Thinking:

- Problem Statements
- Problem Solving
- Conditionals and Loops
- Nesting Structures

Functions in Python:

- Built-in Functions
- User-defined
- Modularization of code
- Reusability of code

Basic Python Constructs:

- Input/Output
- Data Types
- Variables
- Control Structures
- Indentation in Python
- Strings
- Lists
- Tuples

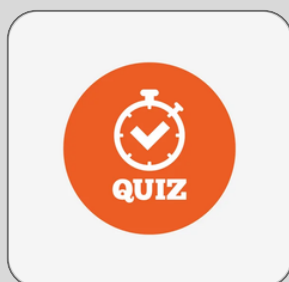
Python Modules Covered:

- random - Random and RNG
- datetime - Date and Time
- pytz - Timezones
- requests - Interacting with APIs
- time - Timestamps
- math - Math Functions
- string - Strings in Python

PROJECT SHOWCASE



Dice Roll



Quiz App



Countdown App



NEWS App

PYTHON (AI TRACK)

Dive into the world of Python programming with a focus on artificial intelligence, learning to build AI-powered applications while mastering advanced Python concepts.



CORE FEATURES

- **Combine Python programming with AI to create intelligent, real-world applications.**
- **30 Sessions, 30+ Quizzes, Activities and Projects.**

CONCEPTS COVERED

Introduction to AI and Machine Learning:

- What is AI and how it works
- Subsets of AI: Machine Learning and Deep Learning
- Exploring AI projects (e.g., Google Experiments)

Classification:

- Text Classification
- Image Classification
- Audio Classification
- Supervised Learning
- Data Processing for Images
- Real-time Prediction

Machine Learning Models:

- Introduction to Machine Learning
- Types of classification in ML
- Understanding models in ML
- Creating models using Google Teachable Machine
- Popular ML models and applications

PROJECT SHOWCASE



Spam Detector



Audio Classification