Expert

GRADE 4-6 CURRICULUM

TechEdx
Knowledge Delivered

Class 1-48
Application & Game Development

Game Development 1

Design a single player game application using sequence, variable, events and while loops.

Build a Game app

Application Development 2

Develop mobile application and learn the advanced concept of building mobile application by using functions and events.

Build a mobile app

Native Application Development 3

Develop a native application using GUI designing and loops.

Build a native app

Chat bot Development 4

Develop chatbot using cloud services and learn the intent and database integration.

Class 49-96
Web Development

UI/UX Design 5

Build a static website by using animation and website elements.

Frontend Development 6

Build a responsive website by using bootstrap library, HTML5, CSS3 & JavaScript.

Integration 7

NASA APIs

Build a interactive web application using NASA API, HTML5 & CSS3 with JavaScript.

Full Stack Development 8

Build a real time web application using database, including HTML5, CSS3 & JavaScript.

Class 97-144
Artificial Intelligence Application

Machine Learning 9

Create a fun filled application by applying basic concept of machine learning.

Natural Language Processing 10

Create a advanced level interactive application for speech-text-speech.

Computer Vision 11

Create a advanced level interactive application for image recognition.

Neural Networks 12

Create a advanced level interactive application for classification problem to detect emotion.

Expert

GRADE 7-9 CURRICULUM

TechEdx
Knowledge Delivered

Class 1-48
Application & Game Development

Single Player Game
1

Build a basic game by applying fundamental concepts of coding including loops, conditional programming, variables and function.

Build a Game app

Multi Player Game
2

Build a multiplayer game by applying events loops and async interaction.

Build a Game app

Native Games
3

Develop a native application using GUI designing and loops.

Build a native app

Advanced Game Design
4

Develop a concept with instructor and develop game from scratch till end to have clear understanding.

Class 49-96
Web Development

Web Application Development
5

Build a dynamic website by using bootstrap library, HTML5, CSS3 & JavaScript.

Mobile Application Development
6

Build an application compatible on multiple devices using application development fundamentals.

Form Website
7

Build a website where user can input and output data and handle the reports..

Database enabled website
8

Build a website which can store data in database and can access too.

Class 97-144
Artificial Intelligence Application

python Programming
9

Learn the basic concepts of Python and create a interactive application using Python.

Data Visualization
10

Learn data visualization by visualizing data via data collection and manipulation.

AI & Machine Learning
11

Kick off data science and master the art of modeling data for machine learning

API Development
12

Create your own API endpoint to create a data service Application using Flask.

Expert

GRADE 10+ CURRICULUM

TechEdx
Knowledge Delivered

Class 1-48
Application & Game Development

1
python Programming

Learn fundamental of python and use of different libraries including conditionals, functions, loop.

2
Data Processing & Visualization

Visualize the data via Pandas and Numpy and visualize via different chart and plots.

3
Data Structure

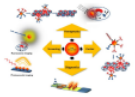
Build an interactive application using string, tuple, list and directories.

4
Correlation & Probability

Understand the correlation and probability based on the complex data.

Class 49-96
Web Development

5
Inferential Statistics



Infer the output by doing Hypothesis testing.

6
Object Oriented Programming

Build library by applying OPPs concept of abstraction, polymorphism, inheritance and abstraction.

7
Machine Learning - Regression

Forecast the data by using different regression algorithm like linear, SVM, Random forest.

8
Machine Learning - Classification

Predict the data by using different classification algorithm like logistic regression, SVM, Random forest.

Class 97-144
Artificial Intelligence Application

9
K-Means - Clustering

Reduce the confusion of target variable by using K-Means applying Dunn Index.

10
Hierarchical Clustering

Cluster the data based on features by applying dendograms, cluster analysis, means and centroids.

11
Principal Component Analysis

Apply PCA algorithm to identify principle component from the complex set of data based on covariance.

12
Model Selection

Learn to choose the best prediction model by applying cross-validation and hyper-parameter tuning.