

Class 1-48 Application & Game Development

Class 49-96 Web Development

Class 97-144 Artificial Intelligence Application

Game Development 1. Design a single player game application using sequence, variable, events and while loops. Build a Game app

UI/UX Design 5. Build a static website by using animation and website elements.

Machine Learning 9. Create a fun filled application by applying basic concept of machine learning.

Application Development 2. Develop mobile application and learn the advanced concept of building mobile application by using functions and events. Build a mobile app

Frontend Development 6. Build a responsive website by using bootstrap library, HTML5, CSS3 & JavaScript.

Natural Language Processing 10. Create a advanced level interactive application for speech-text-speech.

Native Application Development 3. Develop a native application using GUI designing and loops. Build a native app

NASA APIS Integration 7. Build a interactive web application using NASA API, HTML5 & CSS3 with JavaScript.

Computer Vision 11. Create a advanced level interactive application for image recognition.

Chat bot Development 4. Develop chatbot using cloud services and learn the intent and database integration.

Full Stack Development 8. Build a real time web application using database, including HTML5, CSS3 & JavaScript.

Neural Networks 12. Create a advanced level interactive application for classification problem to detect emotion.

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### Single Player Game

1



Build a

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

### Web Application Development

5



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



python  
Programming

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

9

### Multi Player Game

2



Build a  
Game app

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

### Mobile Application Development

6



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

### Data Visualization

10



Learn data visualization visualizing data via data collection and manipulation.

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### Native Games

3



Build a  
native app

Develop a native application using GUI designing and loops.

### Form Website

7



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

### AI & Machine Learning

11



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

### Advanced Game Design

4



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

### Database enabled website

8



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

### API Development

12



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

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

1

**Inferential Statistics**



Infer the output by doing Hypothesis testing.

5

**K-Means - Clustering**



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

9

**Data Processing & Visualization**



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

2

**Object Oriented Programming**



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

6

**Hierarchical Clustering**



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

10



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

3

**Machine Learning - Regression**



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

7

**Principal Component Analysis**



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

11

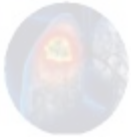
**Correlation & Probability**



Understand the correlation and probability based on the complex data.

4

**Machine Learning - Classification**



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

8

**Model Selection**



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

12

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