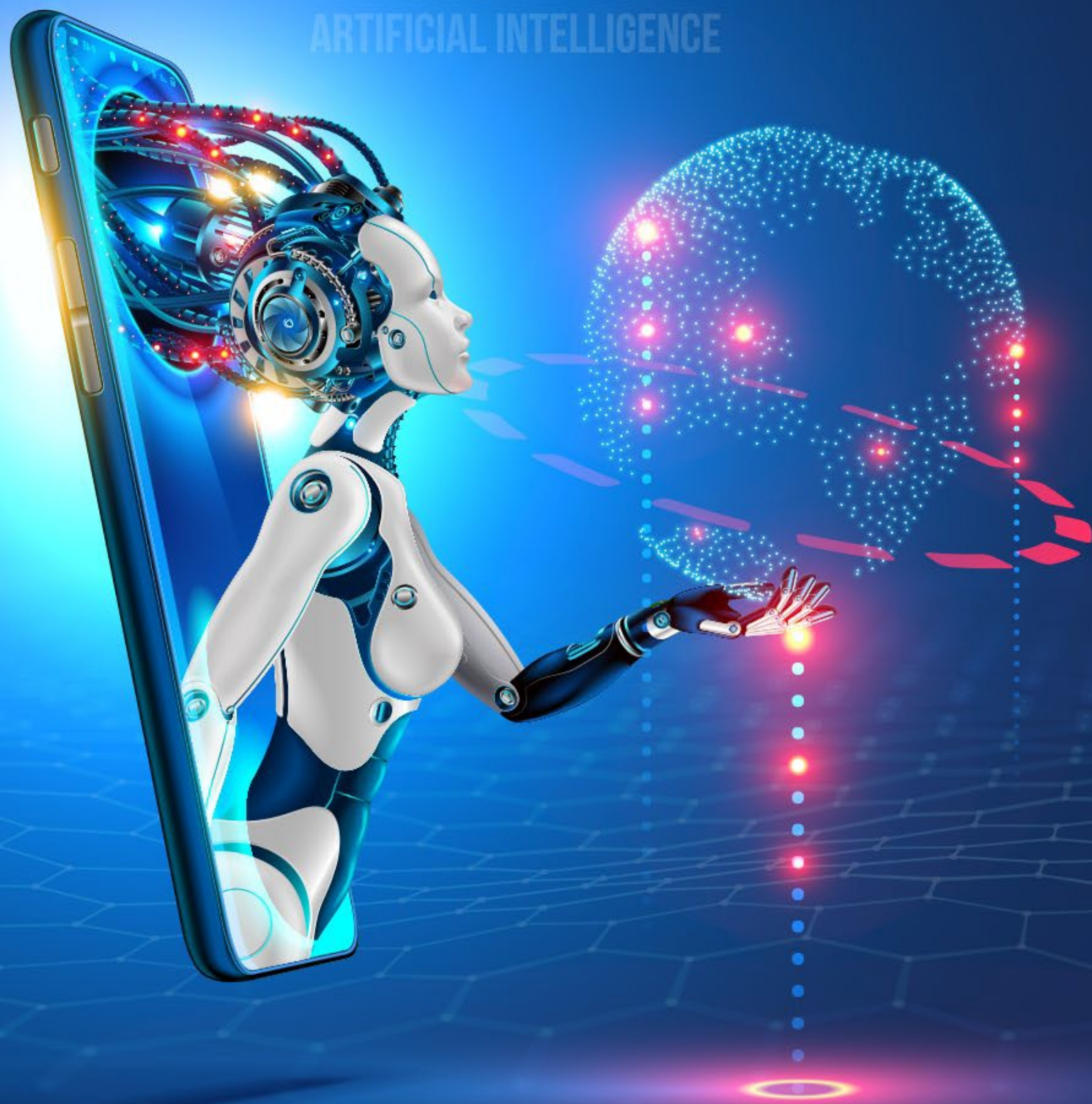


DATA AND
ARTIFICIAL INTELLIGENCE



simplilearn

P PURDUE
UNIVERSITY®

Deep Learning with Keras with TensorFlow

DATA AND ARTIFICIAL INTELLIGENCE



Course Introduction

Course Objectives

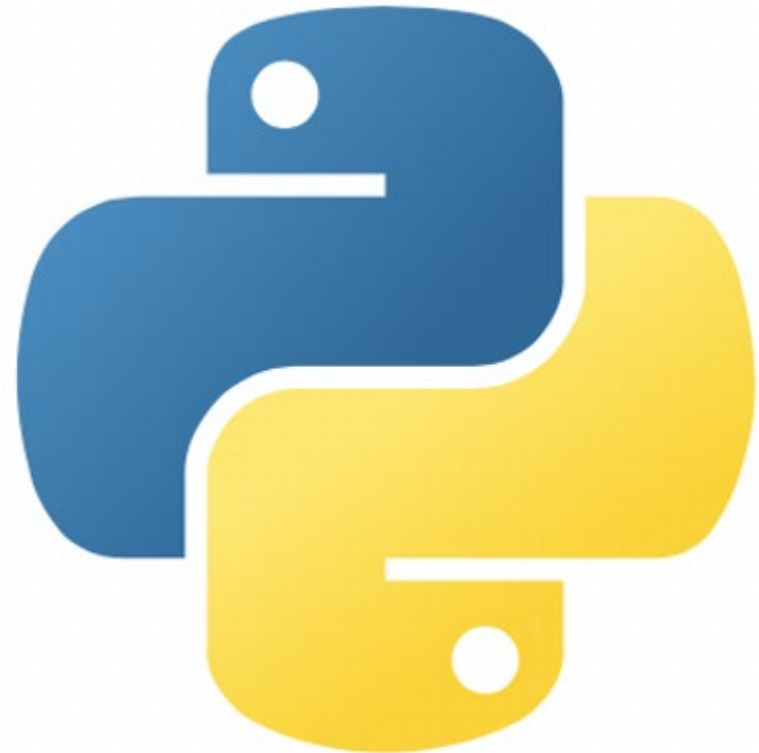
By the end of this course, you will be able to:

- Solve complex problems using neural networks
- Configure deep learning algorithms and learn how to train deep networks
- Use various frameworks required for creating neural networks along with their functionalities
- Perform image classification using CNNs
- Work on sequential data with LSTMs



Course Prerequisites

The course requires prior knowledge of the following technologies:



Python



Machine Learning

Course Outline

1

**AI and Deep Learning
Introduction:** Get exposed to
usages of deep learning at a
use case level

3

**Deep Neural Net
optimization, tuning,
interpretability:** Learn to
optimize and tune your
deep learning models for
enhanced performance

**Artificial Neural
Networks:**
Understand the
functioning of neural
networks

2

**Deep Neural Network
and Tools:**
Get exposed to
different frameworks
for building a deep
neural model in
Python

4

Course Outline

5

Convolutional Neural Net: Understand the working of CNN and use it for image classification

Recurrent Neural Networks: Use RNNs to model sequential data

6

Autoencoders: Learn autoencoders to learn efficient data codings in an unsupervised manner

7

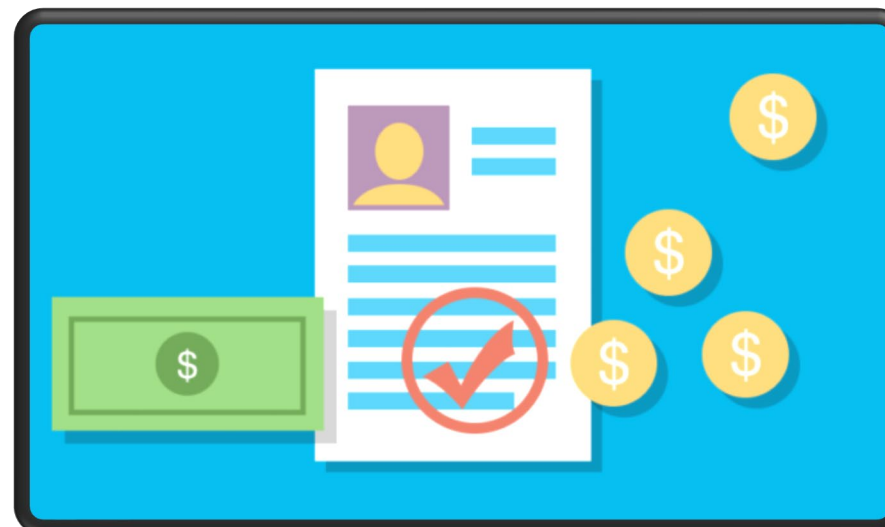
Project Highlights

Skills Covered:

1. ANN, CNN, and RNN
2. Autoencoders

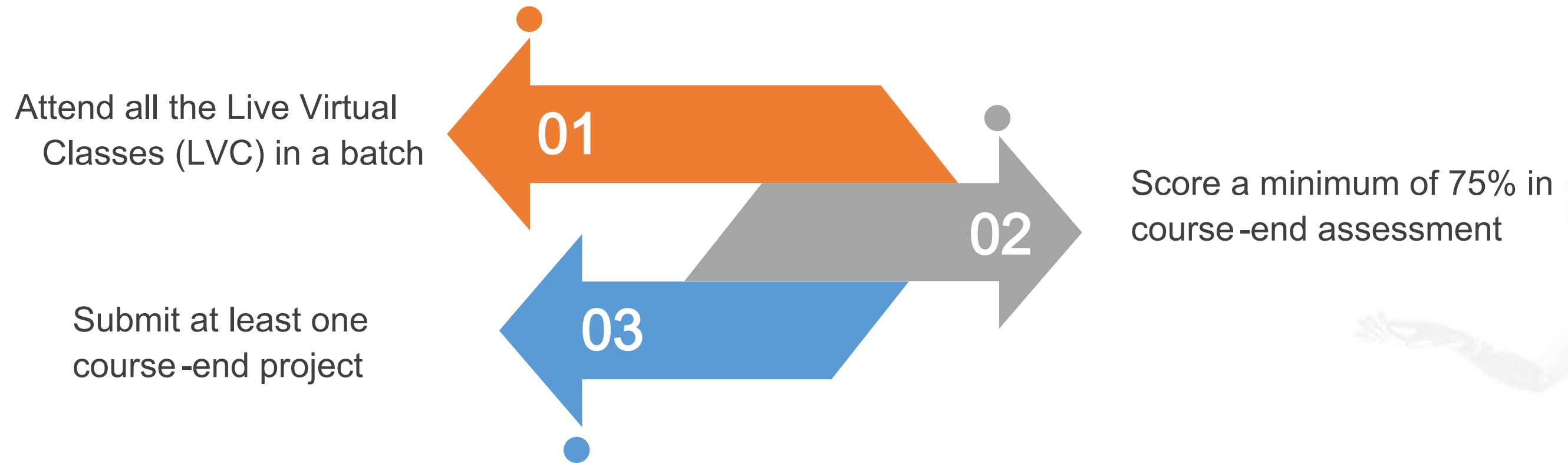


PUBG Players Finishing Placement Prediction (Practice Project)



Lending Club Loan Data Analysis

Course Completion Criteria



Thank You