IBM SkillsBuild Virtual FDP Daywise - AI/ML with Cloud

S.No	Day	Content	Self Learning Content
1	Day-1	**Introduction to Data Science, Machine Learning, Artificial Intelligence & Cloud Computing** ● What is Data Science? ● What is Machine Learning? ● Types of Machine Learning ● Use Cases of Machine Learning ● What is Artificial Intelligence? ● History of Artificial Intelligence ● Use Cases of Artificial Intelligence ● Role of Data Scientist ● Deep Learning Tools & Packages ● Introduction to IBM Cloud ● What is Cloud ● Advantages of Cloud ● Types of Cloud ● Understand IBM Cloud Services	To enroll for the course please follow the given steps Step1: Go to IBM SkillsBuild Platform Step2: Go to Topics in main menu -> select IBM Cloud from the dropdown step3: Scroll down to Courseware and start with **Journey to Cloud: Envisioning Your Solution** Course
2	Day-2	**Python For Data Science** ● Python Packages ● Working with Numpy ● Working with Pandas	To enroll for the course please follow the given steps Step1: Go to IBM SkillsBuild Platform Step2: Go to Topics in main menu -> select Artificial Intelligence Step3: Scroll down to Courseware and start with **Getting Started with Enterprise-grade AI** Course
3	Day-3	**Data Wrangling Techniques & Introduction to Supervised Learning (Regression)** ● Introduction to Data pre-processing ● Introduction to Regression ● Linear Regression ● Multiple Linear Regression	
4	Day-4	**Introduction to Supervised Learning (Regression)** ● Decision Tree Regression ● Hands on implementation ● Random Forest Regression ● Hands on implementation	
5	Day-5	**Introduction to Supervised Learning (Classification)** ● Introduction to Classification ● Logistic Regression ● Decision Tree Classification ● Random Forest Classification	
6	Day-6	**Introduction to Neural Network (ANN)** ● Introduction to Data preprocessing ● Introduction to Neural Networks ● Neuron, Activation Function ● How do Neural Networks work? ● How do Neural Networks learn? ● Gradient Descent ● Introduction to Tensorflow & Keras Framework	To enroll for the course please follow the given steps Step1: Go to IBM SkillsBuild Platform Step2: Go to Topics in main menu -> select Artificial Intelligence Step3: Scroll down to Courseware and start with **Building Trustworthy AI Enterprise Solutions** Course
7	Day-7	**Hands On Neural Network (ANN)** ● Activation functions ● Layers, Training, Loss function ● Building ANN Using Tensorflow ● Evaluating Improving and Tuning ANN	
8	Day-8	**Introduction to Convolution Neural Network (CNN)** ● Introduction to Convolutional Neural Networks ● What are convolutional neural networks? ● Step 1(a) - Convolution Operation ● Step 1(b) - ReLU Layer ● Step 2 - Pooling ● Step 3 - Flattening ● Step 4 - Full Connection ● Classification of images using CNN ● Evaluating, Improving, and Tuning the CNN ● Deploying Deep Learning Models on IBM Cloud	
9	Day-9	**Integrate with Flask Web Framework** ● Introduction to Flask ● Create Web application using flask ● Integrate IBM Deep Learning model with flask ● Evaluate the model on web Page	
10	Day-10	**Conversation AI Platform, Watson Assistant** ● Conversation & Speech Recognition ● Conversation AI Platforms ● Introduction to IBM Watson Assistant ● Dialog Skill and Search Skill ● Create your first assistant–powered chatbot	