**PGDM / MBA\_BA09**

**Assignment Guidelines**

**Batch:** BA09

**Trimester**: 3

#### **Module Name:** Module 12 | Deep Learning for AI

**Mentor:** Ravi Shukla

**Marks:** 25

**Objective :**

* Apply all the knowledge you gained from the Deep Learning for AI using the Image Classification.

**Assignment Details**

* This is an **Individual assignment.**
* Perform Image Classification on the Multi-class Weather Dataset.
* Dataset for the following assignment has been already uploaded on LMS and also attached Below.

**Please keep in mind the following instructions:**

* Divide the training data into training, validation and run the model on them. Use the data prep logic we used in cats and dogs project (After modifying it suitably).
* Follow any 4 out of 5 variations we tried in “cats and dogs project “including basic convnet, convnet with augmentation. Pretrained model with features, pretrained model with augmentation and pretrained model with fine tuning.
* Please remember that there are some differences in this problem as compared to “cats and dogs” which was a binary classification problem while this is a multiclass classification problem
* Please go through the relevant chapter from Chollet’s deep learning book as well in case of any doubts.
* As discussed, please share one slide with a summary of results(accuracy) obtained in each approach in tabular format.

**Outcome:**

* Participants will be able to solve the business and complex problems using the concepts of Deep Learning for AI.

**Submission Guidelines:**

* Please follow this path to submit the assignment on LMS (reva.linkstreet.in). Sign in to LMS and go to dashboard (Topmost option on Left most side column) > Go to the channel – “BA09 | TRIM03 | Module 12 | Deep Learning for AI |Ravi Shukla” > Go to the post “Assignment & Assessments” > On the right-hand side of the screen you will see – “BA09 | Module 12 Deep Learning for AI | Assignment 1...”> Click on “Start” > Upload your assignment as ppt file.
* Kindly rename your file as “BA09\_Module 12\_Assignment 1\_YOUR NAME”.
* Kindly upload the assignment before the deadline as the late submissions won’t be entertained.
* Zip document along with script file and ppt submit it.
* Kindly upload the assignment before the deadline.
* Please use only the RACE PowerPoint template to create your presentations which is available  
  in the Assignment and Assessment folder (the same location as this guidelines document)



**Date of submission in the LMS:** 28 / 04 / 2023 - 11:59 PM