

<b>Date</b>	<b>03.11.2022</b>
<b>Team id</b>	IBM-29269-1662616381
<b>Project Name</b>	<b>AI-Powered nutrition analyser for fitness enthusiasts</b>

### Project Milestone and Activity list:

<b>Title</b>	<b>Description</b>	<b>Date</b>
Project Objective	<ul style="list-style-type: none"> <li>• fundamental concepts and techniques of Convolutional Neural Network.</li> <li>• gain a broad understanding of image data.</li> <li>• Knowhow to pre-process/clean the data using different data preprocessing techniques.</li> <li>• know how to build a web application using the Flask framework.</li> </ul>	15.10.2022
Project Flow	<ul style="list-style-type: none"> <li>• The user interacts with the UI (User Interface) and give the image as input.</li> <li>• Then the input image is then pass to our flask application,</li> <li>• And finally with the help of the model which we build we will classify the result and showcase it on the UI.</li> </ul>	23.10.2022
Prerequirties	free and open-source distribution of the Python and R programming languages for data science and machine learning-related applications. It can be installed on Windows,	16.10.2022

	Linux, and macOS. Conda is an open-source, cross-platform, package management system. Anaconda comes with great tools like JupyterLab, Jupyter Notebook, QtConsole, Spyder, Glueviz, Orange, Rstudio, Visual Studio Code.	
<b>Project Structure</b>	<p>Create a Project folder that contains files as shown below</p> 	<b>25.10.2022</b>
<b>Data Collection</b>	<p>Collect images of different food items organized into subdirectories based on their respective names as shown in the project structure.</p> <p>Create folders of types of food items that need to be recognized.</p>	<b>24.10.2022</b>
<b>Image Processing</b>	In this milestone, we will be improving the image data that suppresses unwilling distortions or enhances some image features important for further processing, although performing some geometric transformations of images like rotation, scaling, translation, etc.	<b>24.10.2022</b>
<b>Model Building</b>	build our Convolutional Neural Networking which contains an input layer along with the convolution, max-pooling, and finally an output layer.	<b>25.10.2022</b>
<b>Application Building</b>	we have trained our model, let us build our flask application which will be running in our local browser with a user interface.	<b>25.10.2022</b>
<b>Train the model on IBM</b>	In this milestone, you will learn how to build Deep Learning Model Using the IBM cloud.	<b>26.10.2022</b>
<b>Ideation</b>	<b>In this milestone you are expected to get started with the Ideation process.</b>	<b>02.11.2022</b>

Project Design Phase 1	From this milestone you will be starting the project design phase. You are expected to cover the activities given.	02.11.2022
Project Design Phase 2	From this milestone you will be continue working on the project design phase. You are expected to cover the activities given.	02.11.2022
Project Planning Phase	In this milestone you are expected to prepare milestones & tasks, sprint schedules.	03.11.2022
Project development Phase	In this milestone you will start the project development and expected to perform the coding & solutioning, acceptance testing, performance testing based as per the sprint and submit them.	04.11.2022