

# MILESTONE AND ACTIVITY LIST

<b>DATE</b>	27 October 2022
<b>TEAM ID</b>	PNT2022TMID12616
<b>PROJECT NAME</b>	Smart Lender - Applicant Credibility Prediction for Loan Approval
<b>MAXIMUM MARKS</b>	4 Marks

## MILESTONE

Data collection	M-01	Download the dataset lending application.
Data preprocessing	M-02	The downloaded data is preprocessed before training the model.
Model building	M-03	Build the model using XGBoost, KNN, DecisionTree and RandomForest
Application building	M-04	Create a python-flask application to run the app in the local browser and showcase the prediction on UI.
Train the model on IBM	M-05	The model is trained in the IBM cloud.
Ideation phase	M-06	Perform the literature survey, ideation, and prepare the empathy map.
Project Design Phase - I	M-07	Prepare the proposed solution, the problem-solution fit, and the Solution Architecture.
Project Design Phase - II	M-08	Create a customer journey, functional requirements, a data flow diagram, and a technology architecture
Project Planning Phase	M-09	Make a list of milestones, an activity list, and a sprint delivery plan.
Project Development Phase	M-10	Develop and submit Sprint 1, Sprint 2, Sprint 3, and Sprint 4

## ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	Data Collection	<ul style="list-style-type: none"> <li>Download dataset/ create dataset</li> </ul>	All Members	Completed
2.	Data preprocessing	<ul style="list-style-type: none"> <li>Import the libraries</li> <li>Import the dataset</li> <li>Handling missing data</li> <li>Feature scaling</li> <li>Data visualization</li> <li>Splitting data into train and test</li> <li>Creating a dataset with sliding windows</li> </ul>	All Members	Completed
3.	Model Building	<ul style="list-style-type: none"> <li>Importing the Model Building Libraries</li> <li>Initialize the model</li> <li>Using the different models KNN, XGBoost, DecisionTree and RandomForest</li> <li>Adding output layers</li> <li>Configure the learning process</li> <li>Train the model</li> <li>Model evaluation</li> <li>Save the model</li> <li>Test the model</li> </ul>	All Members	Completed
4.	Application Building	<ul style="list-style-type: none"> <li>Create an HTML file</li> <li>Build Python code</li> <li>Run the app in the local browser</li> <li>Showcasing prediction on UI</li> </ul>	All Members	Completed
5.	Train the model on IBM	<ul style="list-style-type: none"> <li>Register for IBM cloud</li> <li>Train the ML model on IBM</li> <li>Integrate flask with scoring endpoint</li> </ul>	All members	In Progress
6.	Ideation Phase	<ul style="list-style-type: none"> <li>Literature Survey On The Selected Project &amp; Information Gathering</li> <li>Prepare Empathy Map</li> <li>Ideation</li> </ul>	All Members	Completed

7.	Project Design Phase - I	<ul style="list-style-type: none"> <li>• Proposed Solution</li> <li>• Problem Solution Fit</li> <li>• Solution Architecture</li> </ul>	All Members	Completed
8.	Project Design Phase - II	<ul style="list-style-type: none"> <li>• Customer Journey</li> <li>• Functional Requirement</li> <li>• Data Flow Diagrams</li> <li>• Technology Architecture</li> </ul>	All Members	Completed
8.	Project Planning Phase	<ul style="list-style-type: none"> <li>• Prepare Milestone &amp; Activity List</li> <li>• Sprint Delivery Plan</li> </ul>	All Members	Completed
9.	Project Development Phase	<ul style="list-style-type: none"> <li>• Delivery Of Sprint-1</li> <li>• Delivery Of Sprint-2</li> <li>• Delivery Of Sprint-3</li> <li>• Delivery Of Sprint-4</li> </ul>	All Members	In Progress