**Weekly Report: Oudarja Barman Tanmoy Alpha AI**

# Week-01 (march 17 - march 21)

1. Machine Learning specialization:
   1. Course 01: Supervised Machine Learning: Regression and Classification
      1. Week 1: Concept about Machine Learning, Supervised Learning, Unsupervised learning , Linear Regression, Cost Function, Visualization of Cost Function, Gradient Descent , Learning Rate.
      2. Week 2: Multiple Features, Vectorization, Gradient Descent for Multiple Linear Regression.
      3. Week 3: Logistic Regression, Decision Boundary, Cost Function for Logistic Regression.
2. Object Oriented Programming task:
   1. Learned about basic 4 pillars of Oop
   2. Created a documentation with python script
   3. Created a presentation slide for Oop presentation slide as per the assigned task.
   4. Resources that helps me to learn Oop are geeks for geeks, W3school.
3. DP ML problem solving:
   1. Solved DP ML problem of given ID and completed the documentation related to each problem.
4. DSA problem solving from Leetcode:
5. Solved DSA problem of given ID and completed the documentation related to each problem.