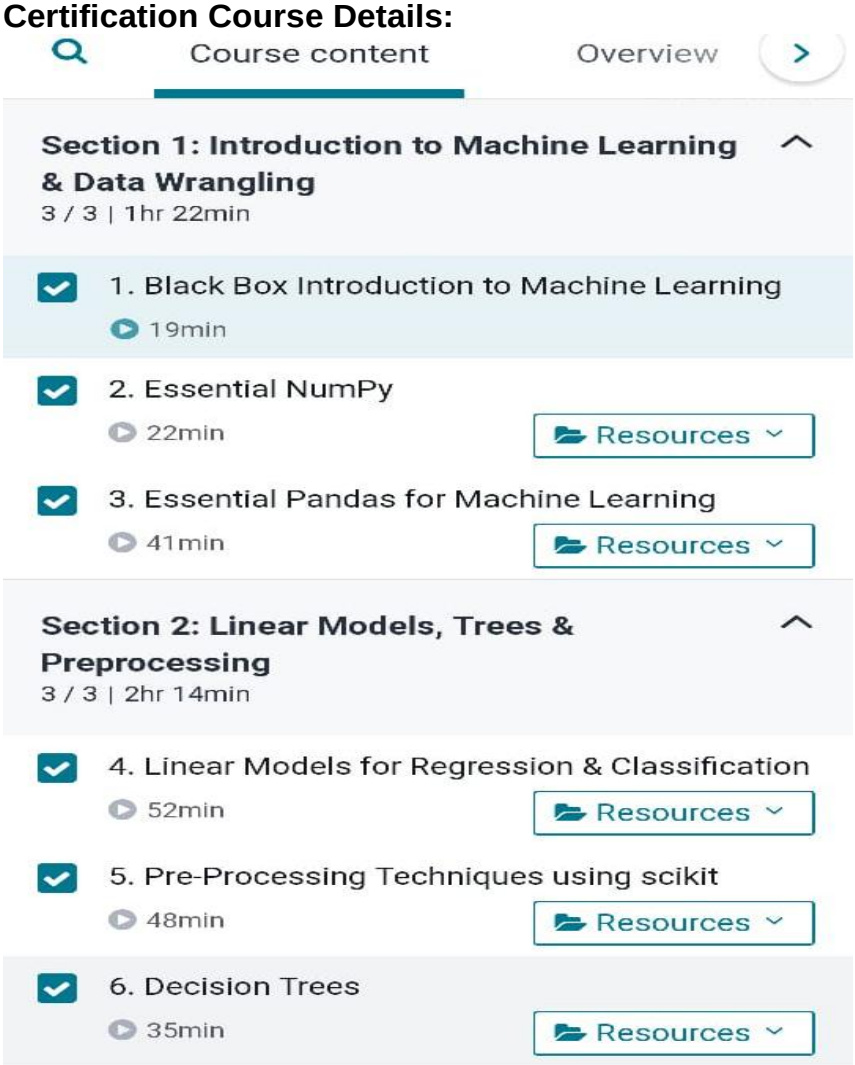
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**08/06/2020**	**Name:**	**Deepa**
Sem & Sec	**8th Sem**	**USN:**	**4AL16CS029**
Online Test Summary			
Subject	**System Model-ling and Simulation**		
Max. Marks	**60**	**Score**	**60**
Certification Course Summary			
Course	**Step by step guide to machine learning**		
Certificate Provider	**1) Udemy**	**Duration**	**7 hrs**
Coding Challenges			
Problem Statement: 1) Write a C Program to Generate All the Set Partitions of n Numbers Beginning from 1 and so on			
Status: Completed			
Uploaded the report in Github	**Yes**		
If yes Repository name	**Daily_report**		
Uploaded the report in slack	**yes**		

Online Test Details:

Certification Course Details:



Coding Challenges Details:

Program 1:

```
#include<stdio.h>

void printArray(int p[], int n)
{
   for (int i = 0; i < n; i++)
      printf("%d ",p[i]);
   printf("\n");
}

void partition(int n)
{
   int p[n], true=1;
   int k = 0;
   p[k] = n;

   while (true)
   {
      printArray(p, k+1);

      int rem_val = 0;
      while (k >= 0 && p[k] == 1)
      {
```

```
        rem_val += p[k];
        k--;
      }

      if (k < 0) return;

      p[k]--;
      rem_val++;

      while (rem_val > p[k])
      {
        p[k+1] = p[k];
        rem_val = rem_val - p[k];
        k++;
      }

      p[k+1] = rem_val;
      k++;
   }
}

int main()
{
   int n;
   printf("Enter the number: ");
```

```
    scanf("%d",&n);
    partition(n);

    return 0;
}
```