# DAILY ONLINE ACTIVITIES SUMMARY

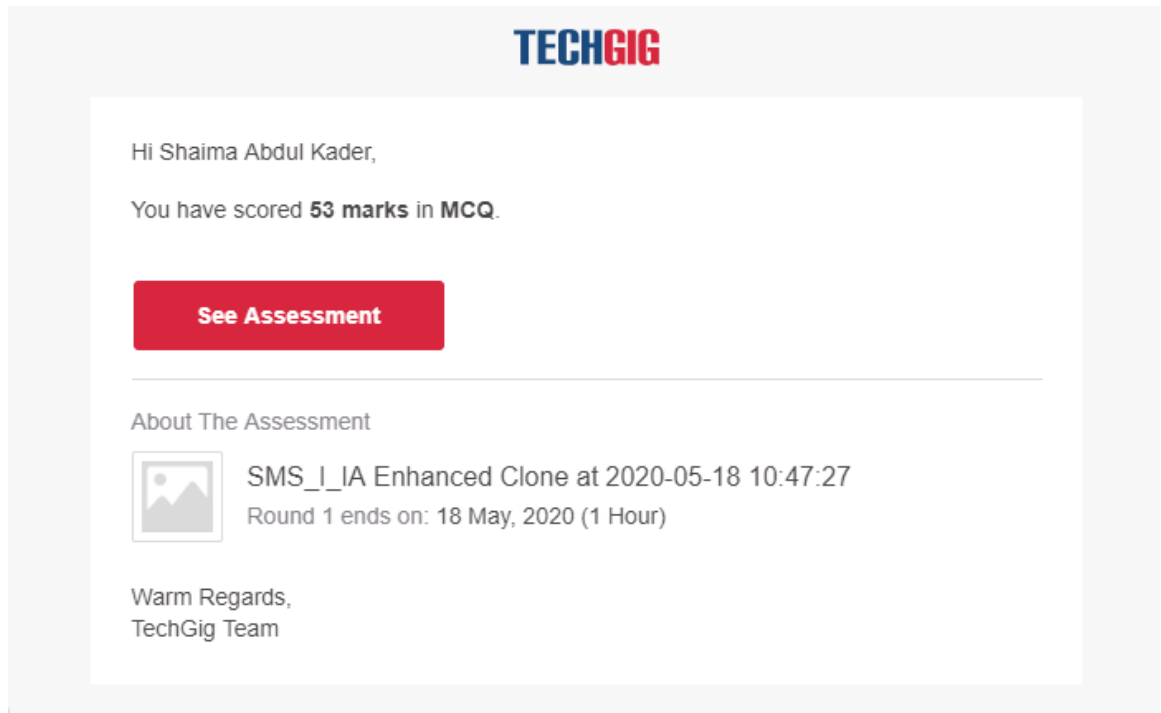| Date: | 18-05-2020 | Name: | Shaima Abdul Kader |
|---|---|---|---|
| Sem & Sec | 8th,B | USN: | 4AL16CS087 |

## Online Test Summary

| Subject | SMS ( IA 1 ) | | |
|---|---|---|---|
| Max. Marks | 60 | Score | 53 |

## Certification Course Summary

| Course | Machine Learning Onramp (MathWorks by ICT ACADEMY) | | |
|---|---|---|---|
| Certificate Provider | ICT ACADEMY | Duration | 2 Hrs |

## Coding Challenges

**Problem Statement:  prob1- Using methods charAt() & length() of String class, write a program to print the frequency of each character in a string. "Hello friend"**

**Prob2- Write down a java program to print even and odd numbers series respectively from two threads: t1 and t2 synchronizing on a shared object Let t1 print message "ping — >" and t2 print message ",—-pong".**

Status: Solved
Solution link : https://github.com/alvas-education-foundation/shaima

| Uploaded the report in Github | Yes |
|---|---|
| If yes Repository name | shaima |
| Uploaded the report in slack | Yes |

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

# 1) Online Test Details:



# 2) Certification Course Details: Machine Learning Onramp

# MathWorks | *Training Services*
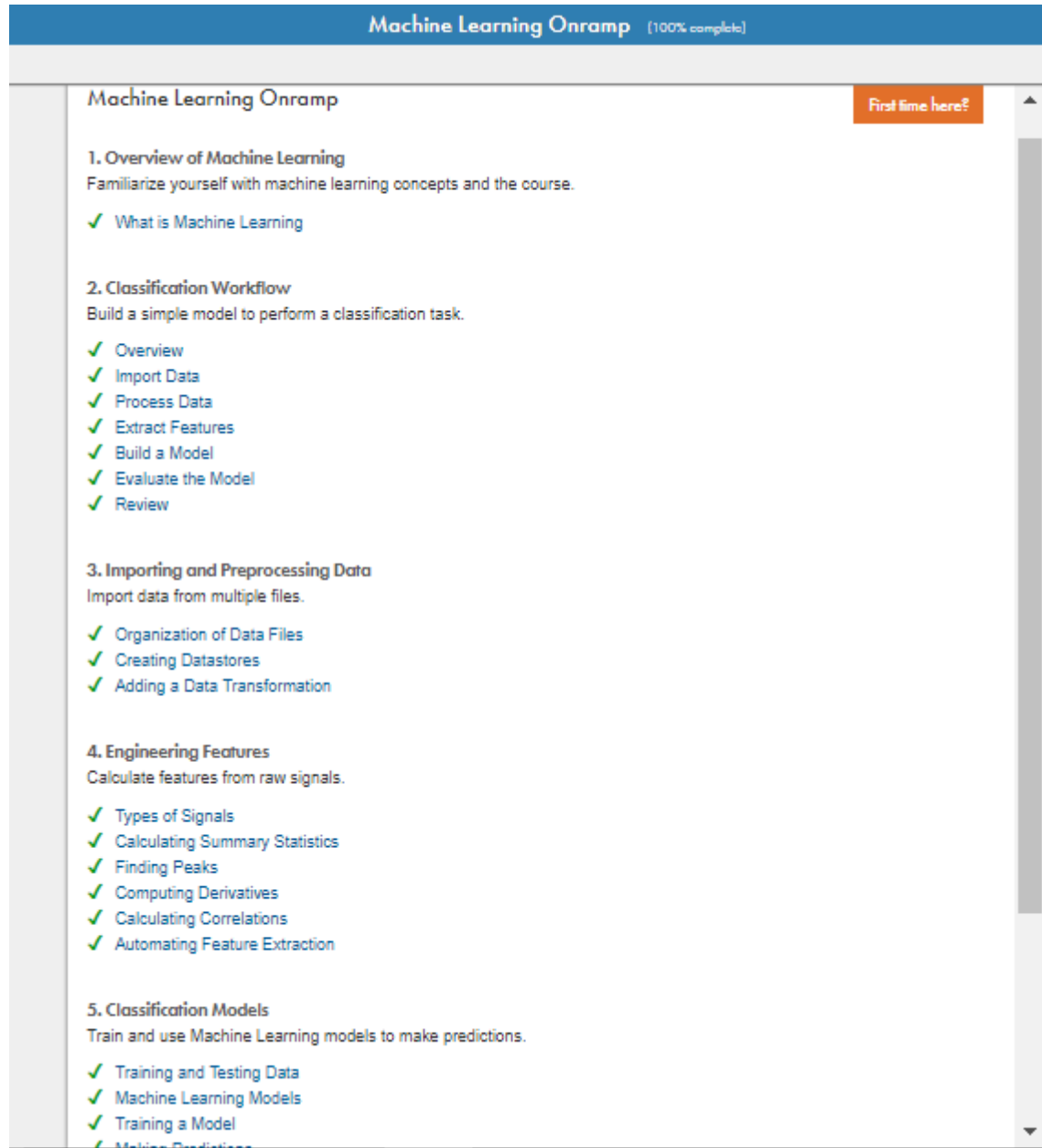
# **Course Completion Certificate**

Shaima Abdul Kader

**has successfully completed 100% of the self-paced training course**

## Machine Learning Onramp

DIRECTOR, TRAINING SERVICES

## Machine Learning Onramp

First time here?

**1. Overview of Machine Learning**
Familiarize yourself with machine learning concepts and the course.

✓ What is Machine Learning

**2. Classification Workflow**
Build a simple model to perform a classification task.

✓ Overview
✓ Import Data
✓ Process Data
✓ Extract Features
✓ Build a Model
✓ Evaluate the Model
✓ Review

**3. Importing and Preprocessing Data**
Import data from multiple files.

✓ Organization of Data Files
✓ Creating Datastores
✓ Adding a Data Transformation

**4. Engineering Features**
Calculate features from raw signals.

✓ Types of Signals
✓ Calculating Summary Statistics
✓ Finding Peaks
✓ Computing Derivatives
✓ Calculating Correlations
✓ Automating Feature Extraction

**5. Classification Models**
Train and use Machine Learning models to make predictions.

✓ Training and Testing Data
✓ Machine Learning Models
✓ Training a Model
✓ Making Predictions

## 3) Coding Challenges:

Program 1 :

```
import java.util.Scanner;
public class Main
{
public static void main(String[] args) {
```

```java
    int i;
        String str;

        int count[] = new int[256];
        Scanner s = new Scanner(System.in);

        System.out.print("Enter a String : ");
        str=s.nextLine();

         for (i = 0; i < str.length(); i++) {
            count[(int) str.charAt(i)]++;
        }
        for (i = 0; i < 256; i++) {
            if (count[i] != 0) {
                System.out.println( (char) i  + " : " + count[i]);
            }
        }
    }
}
```

Program 2 :

```java
public
class
PingPong
extends
Thread {
            static StringBuilder object = new StringBuilder("");

            public static void main(String[] args) throws InterruptedException {

            Thread t1 = new PingPong();
            Thread t2 = new PingPong();

            t1.setName("\nping");
```

```java
t2.setName(" pong");


t1.start();
t2.start();
}


@override
public void run() {
working();
}


void working() {
while (true) {
synchronized (object) {
try {
System.out.print(Thread.currentThread().getName());
object.notify();
object.wait();
} catch (InterruptedException e) {
e.printStackTrace();
}
}
}
}
}
```