**Form 1: Project Information Form**

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| **1.Team No:11** | | |
| **2. Project Title:**  Investigation and Finding A DNA Cryptography layer for Securing data in Spark Cluster | | |
| **3.Team Details:** | | |
| **Sl.No** | **Hall Ticket No** | **Name** |
| 01 | 20EG105317 | Retala Nikhil Goud |
| 02 | 20EG105319 | Kadiyala Venkat Sathwik |
| 03 | 20EG105322 | Kundala Akshaya |
| **4.Problem Statement**: | | |
| Apache Spark uses third party security which used huge computations in all the versions of Spark. Many Spark Clusters are configured with Kerberos for user authentication. Node identification is very important to start spark daemons for efficient running of spark cluster and it is not possible to start daemons with duplicate hostnames. | | |
| 1. **5. Source of Project:** | | |
| Our project is based upon the paperAuthored by Balaraju J, P.V.R.D. Prasada Rao. Titled as “Investigation and Finding A DNA Cryptography layer for Securing data in Spark Cluster” icsrs Publication November 2020, Int. J. Advance Soft Compu. Appl, Vol. 12, No. 3. | | |
| 1. **6. Final Outcome:** | | |
| A Secure Authentication Interface (SAI) as a secure layer which positioned above the Spark Cluster. This mechanism provides better authentication for the spark cluster by using limited computations and providing better user security from hackers. The main objective of this paper is to design layer to implement node-sensitive data hiding using DNA sequences and provide security to the user and its data from hackers. | | |
| **7.What are parameters consider for project evaluation** | | |
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| **8.Development Environment:** | | |
| **Intel Core i7 processor, 32GB Ram , 1 TB HDD with Windows OS, Apache Spark (Latest Version) and NodeJS (Version 18.8.1)**. | | |
| **Signature Team Members Signature Supervisor**  1  2  3 | | |