**S. ASWIN LAKSHMANAN**

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# OBJECTIVE:

# To be able to utilize the knowledge already gained, in a responsible and proper manner resulting in a value added to the organization and to reach the apex of my career in the process.

## EDUCATION :

* Course: B Tech , CSE
* Institution & University: Amrita Vishwa Vidyapeetham ,Coimbatore.
* Period: 2016-2020.
* CGPA: 7.29/10.

## PRIMARY & SECONDARY EDUCATION :

* Institution: The Indian Public School, Erode
* Period: 2004-2014
* Board: CBSE
* Marks / Grade: 7.6/10

## HIGHER SECONDARY EDUCATION :

* Stream / Subjects: Computer Science.
* Institution: Erode Hindu Kalvi Nilayam.
* Period: 2014-2016.
* Board: Matriculation (TN Board)
* Marks / Grade: 1084/1200.

# AREAS OF TECHNICAL INTERESTS :

1. Web development.

2. DBMS.

3. Big Data Analytics.

**LANGUAGES KNOWN :**

C , JAVA

**PROJECTS :**

**Topic:** Behavioural analysis of ransomware (Final Year Project)

**Duration:** Nine months [Jun 2019 - Feb 2020]

**Objective:** To build a honey pot model that attracts ransomware and other malwares and analyzes its behaviours/features, which in turn can help us in understanding of that ransomware and the family with which it is associated.A generic model was developed to mitigate the ransomware attacks by studying the behavioral aspects of the ransomware. The API calls made by the ransomware are analyzed along with their timestamps. These timestamps indicate the API call sequences which in turn helps in constructing the N-gram model. The API calls based on Bi-Grams, Tri-Grams,4-Grams and 5-grams are formed and then these N-Grams put together to form an N-Gram sequence model.TF-IDF Scores are calculated for these N-Grams forming our feature N-Grams to train our classification models.

**Tools and Techniques used:**Cuckoo Sandbox,Signature Based Analysis,API Call

sequences,N-Gram Techniques,TF-IDF Computations,Machine Learning Models(Binary Classifier

models - K-Nearest Neighbor,Support Vector Machine,Decision tree,Random Forest Classifier,Logistic Regression,Voting Classifier).

**Outcome:** Our classifier model was able to predict the new ransomwares families that comes

into existence thus, overcoming the limitations faced from the traditional static based analysis

techniques.

**Topic:** Zomato Data Analysis (Big Data Analytics)

**Duration/Period:** Three months. [Jan 2020 - Mar 2020]

**Objective:** The basic idea of analysing the Zomato dataset is to get a fair idea about the factors

affecting the establishment of different types of restaurants at different countries and cities.This

Zomato data aims at analysing demography of the location.Most importantly it will help new

restaurants in deciding their theme,menus,cuisines,cost, etc.For a location.It also aims at finding

similarity between neighbourhoods based on food.

**Tools and Techniques used:** Hive(Hive Query Language),Pig Latin Scripts,MongoDB,Tableau(Visualisation).

**Outcome**: From the inferences of this analysis,suggestions can be given to restaurants on how to

improve service and to customers on what restaurant to choose.

**Topic:** Baby Monitoring System (IOT Based Application)

**Duration/Period:** Five months. [ JUN 2018 - OCT 2019]

**Objective:** It is an innovative, smart and protective cradle system to nurture an infant in an efficient way.The design of smartness & innovation comes with the use of

technologies/methodologies which include Internet of Things (IOT) (Modules like Arduino, Humidity & Temperature sensors), Cloud Computing (Data Storage) & User Friendly Android Mobile Application (for User Controls).In order to detect each & every activity of Baby, different Sensors/Modules are attached to the Cradle: Humidity & Temperature Sensing Module for detection of Wetness of the bed. All the data which has been taken from the sensors/modules will be stored in Cloud (Adafruit.io) & analyzed at regular intervals.

**Tools and Techniques used:** MPU-6050 Sensor (Gyrometer),Temperature and Humidity Sensors,Adafruit.IO cloud, IFTTT.

**Outcome:** Application was successfully deployed.

**Topic:** Library Management System (Software Engineering Project)

**Duration/Period:** Five months.[Oct 2018 - Feb 2019]

**Objective:** This software is developed after the analysis of issues, problems, and drawbacks of the existing system. Here, different modules have been assigned for managing and organizing different tasks in a library. Using this software, librarians can store information of all the books, with author name, etc., available in the library. Only one person can handle the entire library.The main feature of this system is that all the books available in the library can be displayed in a list so that students need not roam through the entire library to find a book.

**Tools and Techniques used:** Agile methodology,Scrum Meetings, Sonarqube for testing,Backend:Apache Tomcat Server,FrontEnd: Servlets,JSP, HTML,XML.

**Outcome:** Application was successfully completed.

**Topic :**Civil Registry System(Database Management System)

**Duration/Period:** 3 months.[Jun 2018 - Aug 2018]

**Objective :** The primary objective of this project is to give awareness about the government or legal documents and its registration details as well as to help to register or apply for those documents. This also acts as a consultancy agency to assist the public. The main purpose of the project is to reduce the effort by the candidate and save his time and avoid unwanted rushes at the government offices and assure a smooth working schedule at government offices.

**Tools or techniques used :** Normalization of tables,ER Diagrams,EER

Diagrams,MYSQL,HTML,CSS,Bootstrap, JavaScript to develop the user interface and used PHP for server side scripting.

**Outcome:** The web service was successfully developed and was found to be working great in the real world scenarios.

# ACHIEVEMENTS, SCHOLARSHIPS, HONOURS, CONTRIBUTIONS, ETC.:

* Name: Participated in National level Yoga Competition.
* Area / Topic / Details: Secured 9th place.
* When & Where:2010 ,Delhi.
* Name: Certificate of Merit.

**PERSONAL DETAILS:**

* Date of Birth:10/12/1998
* Language proficiency : English, Tamil , Hindi.
* Contact Address:20/5 Indira Gandhi Street,Palayapalayam,Erode-11.

# Place: Coimbatore

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# Date: 27/06/2019 (Name: Aswin Lakshmanan. S)