

SENTHAMILARASU SELVARAJ

11/9 Palaniyappa Naicker Street, Kulathupalayam, Kovaipudur-641042
098941-38282 | a6asu.s@gmail.com



Senthamilarasu did full time Doctorate in Computer Science and My specialization area is Data Mining. I am looking a sound position in corporate world and work enthusiastically in team to achieve goal of the organization with devotion and hard work. I am worked in all aspects of designing software such as Analysis of requirements, identification of problems and solution, Designing the tool, Developing, Testing, and deploying to end users.

I can provide my current skills, knowledge and understanding as well as be challenged so that I may further improve not only myself, but the employer I am working for. I am an assertive, self motivated person, prior to accomplish the task, I work best when I am challenged and given opportunity to improve.

Areas of Expertise

- Having an IT experience in Desktop applications using Microsoft .Net technologies and Core Java.
- Technical Paper Writing.
- Intensive experience of Automation process on Hospital and Wood Industry.
- Having good technical stuff in C, C++, MATLAB, C #, PostgreSQL, MySQL, Dot Net Technologies, R, Weka, Rapid Miner, Stream Mill Interface, MOA and MATLAB Tool boxes.
- Simulation tools, Data Analysis tools, Windows Application, Windows Mobile App Development and Data Base Connectivity's.
- Subject matter Expertise on Data Mining,C,C++,OOPs Concepts
- Skilled with Object-Oriented Analysis and Reusable design patterns

Technical Skills

Microsoft Development Platform

- Visual Studio , SQL Server ,PostgreSQL

Development Languages

- C / C++ / C# / VB.net,Core Java

Tools and Utilities

- R / Rapid Miner / Weka / Fuzzy Tool /Database feed
- Massive Online Analysis / Stream Mill Interface

Experience

Organization :- Software Research Laboratory ,Karpagam University
Coimbatore, India.

Role :- Research Scholar / Developer / Analyst (July-2011 to June-2014)

(1) **Ph.D Thesis -** Dynamic Data Stream Mining using Optimized Integrated Approaches

Technology

- Rapid Miner / Core Java / MATLAB & Tool Boxes
- Excel / Java Script /High Chart / Postgre SQL

Description

This is **product based framework** -In order to deal with huge data in a response way and for valuable information the need arises for knowledge discovery. The data mining approach may allow larger data sets to be handled, but it still does not address the problem of a continuous supply of data. The Data Stream Mining was introduced to overcome the problem of handling continuous data that holds a large data size which is greater than the size of default memory. There are situations where the limitation and challenges faced in the data stream. Hence this research work focuses on effective utilization of the continuous data by proposing a hybrid integrated approach for predicting the patterns in a data stream.

(2) Dynamically Identified the Duplication and Removal Tool

Technology

- Core Java / Net Beans 5.0
- Hash Algorithms

Description

This tool has been used to eliminate the duplicates by introducing the dynamic approach on both the size of the counter and the Bloom Filter. The basic idea is that instead of using either the size of the counter or filter static, the improvised performance of both the counter and the filter size is used as dynamic. In addition, necessary algorithms for new item insertion, querying on the membership and deleting the duplicates are also proposed to detect and remove duplicates of giving records.

(3) Information retrieval in the Cloud Environment

Technology

- Rapid Miner / MATLAB & Tool Boxes / Mining Algorithms
- Cloud SQL / Java Plug-ins / Google App Engine

Description

Retrieving information from the cloud environment is prominently looking for advancement in methodologies for reducing the cost and time while accessing the information anytime and anywhere without using any software assistance. This work has led to growing pioneer work of innovative technologies and given more optimized solution in the information retrieval .This work was adopted bio-inspiration based algorithm and various algorithms while retrieving information from the clod using CloudSQL.

Organization :- Dreamstech Web Solution ,Coimbatore,India.

Role :- Software Engineer(July-11 to Nov-14)

(4) CATCH COLLEGES

Role	:	Team Member
Team Size	:	2

Description

Feeling indecisive about choosing a right Engineering College in Tamilnadu that will propel your career sky high? Perplexed about other people's own choices and opinions to pick a Engineering college out of the blue in Anna University.Here we are back with a bang, with our whole new app" CATCH COLLEGES",Which gives a holistic review on various engineering colleges in Tamilnadu affiliated to Anna university, based on various courses, quota, cut off, details about the college, and comprehensively gives you a clear cut notion with picking the right engineering college in Tamilnadu for you. Information in the app is

correlated and integrated to the extreme precision. This could be a gateway to your much deserved career.

Technology

- Android Version 2.0, Matlab, Weka

Role

- Developing Workflow automation for the Business Process and Data mining Process
- Providing an enterprise scenarios where content pulling and distribution happens timely fashion
- Developing the UI with the advent functionalities

(5) RADIO G

Role	:	Team Member
Team Size	:	2

Description

Folks listen to the beat of the world!!! Here it is, RADIO 6G. Stream and dance to the beat of the glory.

Technology

- Android Version 2.2 and Up

Role

- Updated for new streaming form shout cast
- Developing Workflow Model for the Business Process
- Developing the UI with the advent functionalities

(6) Chick Farms_SRS

Role	:	Team Member
Team Size	:	4

Description

This innovative software product aimed to automate the poultry process. In brief, this solution is help to track the Purchase and Sales of the chicken..

Technology

- Web Application : PHP, Yii Framework, JQuery & CSS, XAMPP / MYSQL 5.6
- Web Service : PHP, Yii Framework, Restful Web services, JSON, XAMPP.
- Mobile/Tablet App : Android / SQLite
- Data Mining : Matlab, Rapid Miner

Role

- Involving with the team in an end to end design and requirement understanding
- Providing an enterprise scenarios where content pulling and distribution happens timely fashion
- Developing the UI with the advent functionalities and Testing

Organization :- Praxiss Technologies, Coimbatore, India.

Role :- Software Engineer (Feb-2010 to June-11)

(7) Storage Components for Inventory System

Client	:	Ravi Wood Industries
Role	:	Team Member
Team Size	:	2

Description

The overseeing and controlling of the ordering, storage and use of components that a company will use in the production of the items it will sell as well as the overseeing and controlling of quantities of finished products for sale. A business's inventory is one of its

major assets and represents an investment that is tied up until the item is sold or used in the production of an item that is sold. It also costs money to store, track and insure inventory.

Technology

- Visual Studio 2.0, SQL Server 2005

Role

- Involving with the team in an end to end design and requirement understanding
- Developing Workflow automation for the Business Process
- Providing an enterprise scenarios where content pulling and distribution happens timely fashion
- Developing the screens with the advent functionalities

(8) Hospital Inventory Management Records

Client	:	Poornima Hospital
Role	:	Team Member
Team Size	:	2

Description

The hospital management system or the hospital billing software incorporates the features which are targeted at dealing with each and every aspects of any hospital and this software also covers the areas like staff details, outpatients, inpatients, inventory of the medical records, payroll and accounts. Besides, this software also offers the security feature that prevents the stored information of the hospital.

Technology

- Visual Studio 2.0, SQL Server 2005

Role

- Involving with the team in end to end design and requirement understanding
- Developing Workflow automation for the hospital Process
- Providing outline where content pulling and distribution happens timely fashion
- Developing the screens with the advent functionalities

Achievements & Conferences

- **Won Silver prize medal for “An E-learning tool for Children with Autism Disorders”** at International Engineering Invention & Innovation Exhibition (i-ENVEX) and Malaysian international young inventors Olympiad (MIYIO)-2013.-Universiti Malaysia Perlis.
- **Attended Faculty Development program (FDP)** held at Karpagam University, Coimbatore, TN. **From 12 to 27-June-2014.**
- **Four Papers Presented** at National Conference at Various Colleges.
- **Four papers Presented** at International conferences: Two is published in **IEEE Xplore/** one is published in **Springer Database / CIIT Proceedings.**
- **Organizing International Conference: Theme -> Network Intelligence and Computing Technologies (ICNICT'11)** at Karpagam University, Coimbatore. Dec 15-16.
- **Organizing a National level symposium: Theme-> MASCAM-Netwave ('08 & '09)** at **Sri Ramakrishna Institute of Technology, Department of Computer Science, Coimbatore.**
- **Organizing National level symposium: Theme-> Info-fest ('05 & '06)** at **V.L.B.Janakiammal college of Arts and Science, Department of Computer Science, Coimbatore.**
- **Participated National level Symposium** at various Colleges.

- **Research paper** (2014), “Enhanced Fuzzy Temporal Association Rule Mining by using Pattern Recognition for Load Shedding”. *Egyptian Informatics Journal* (Elsevier--Accepted)
- **Published research paper** (2014), “Classification of Pattern using Intuitionistic Fuzzy Temporal Association Rule Mining for Data Stream”. *International Journal of Control Theory and Applications*, 7(1), pp.11-18.(Scopus Indexed)
- **Published research paper** (2013), “A Genetic algorithm based Intuitionistic fuzzification technique for Attribute selection”, *Indian Journal of Science and Technology*, 6(4).pp.4336-4346.(Scopus,ISI Thomson Reuters Indexed)
- **Published research paper** (2012), “Dynamically Adaptive Count Bloom Filter for Handling Duplicates in Data Stream”, *International Journal of Engineering and Technology*, 4(6),pp.450-458.(Scopus Indexed)
- **Published research paper** (2012), “Load Shedding for Window Aggregation Queries over Sensor Streams Management”, *Karpagam Journal of Computer Science*, 6(5), pp.252-261.
- **Published research paper** (2012), “Load Shedding using Window Aggregation Queries on Data Streams”. *International Journal of Computer Applications*, 54(9), pp.42-49.(IF: 0.814)
- **Published international paper on**, “Ensemble Classifier for Concept drift Data Stream”, **Springer** International conference on Information and Communication Technologies for Societal Development (**SPRINGER-ICICTS-'14**) held at Karunya University, Coimbatore.Mar-14.pp.127-137.
- **Published international paper on**, “Ensemble of Intuitionistic Fuzzy Classifier”, **IEEE** International conference on Computational Intelligence and Computing Research (**IEEE-ICCIC-'13**) held at Vickram College of Engineering, Madurai.26-28, Dec-13.pp.12-15.(Scopus Indexed)
- **Published international paper on**, “Handling Duplicate Records Using Density Bloom Filter in Data Stream”, International conference on Advanced Technologies for Research & Product Development (**ICATRPD-'12**) held at Kathir College of Engineering, Coimbatore.3, 4-Sept-12,pp.74-77.
- **Published international paper on** “Load Shedding Techniques based on Windows in Data Stream Systems”, **IEEE** International Conference on Emerging trends in Science, Engineering & Technology (**IEEE- INCOSSET-'12**) held at J.J College of Engineering & Technology,Trichy.13,14-Dec-12,pp. 68-73.
- **Published National paper on**, “Classification using Fuzzy Temporal Association Rule Mining in Data Stream”, Karpagam University Annual Research Congress (**KUARC'13**).7-8 Dec-13.p.128-130.
- **Presented National paper on**, “Feature Selection optimized by Genetic Approach”, Karpagam University Annual Research Congress (**KUARC'12**).29-Nov-12.
- **Presented National paper on**,” Proficient Data Stream Algorithms using Wireless Sensor Network”, National Conference on Advances in Computing, Control, Communication, Automation & Structural Engineering (**ACCAS'12**).Al-Ameen Engineering College,Erode.10-Mar-12.
- **Presented National paper on** ,” An Efficient Data Stream Algorithms using Wireless Sensor Network”, National Conference on **Electro Communique Eludo '12**, Ranganathar Engineering College, Thondamuthur, Coimbatore. 7-Mar-12.

Workshops

- One day **International Workshop** on “Networks Intelligence and Computing Technologies (IWNICT)”, Karpagam University, CBE.17-Dec-11
- One day Workshop on “MATLAB-Programming Tool”, Karpagam University, CBE.18-Feb-12.
- One day Workshop on “Research Issues in Data Mining and its Practical approach”, D.J.Academy for Managerial Excellence, CBE.23-Feb-12.
- Two days Workshop on “Rapid Miner-A Data Mining Tool”, Karunya University, CBE.13,14-Mar-12.
- Two days Workshop on “CISCO Academy Meet”, B.S.Abdur Rahman University, Chennai.29, 30-Mar-12.
- One day International Workshop on “IEEE-Writing Technical Paper”, R.M.D Engineering College, Chennai. 31-Mar-12

Education

Ph.D Computer Science --- (FULL TIME) Karpagam University- Coimbatore, Tamil Nadu, India (Awaiting for Viva-Voce)		2014
Master of Computer Application--(FT) Sri Ramakrishna Institute of Technology, Anna university- Coimbatore, Tamil Nadu, India.	(83.20%)	2010
Bachelor of Science, Computer Science—(FT) V.L.B Janakiammal College of Arts and Science, Bharathiar University- Coimbatore, Tamil Nadu, India.	(72.43%)	2007
Higher Secondary (Hr.Sec) PSG Sarva Jana Higher Secondary School Coimbatore,TamilNadu,India.	(61.75%)	2004
X std (S.S.L.C) CBM Sakunthala Vidyalaya High School Coimbatore,Tamilnadu,India.	(80.02 %)	2002

Personal Profile

Name	:	S. Senthamilarasu
Date of Birth	:	28/5/1987.
Father's Name	:	K.R.Selvaraj.
Mother's Name	:	S.Baby.
Nationality	:	Indian.
Marital Status	:	Single
Languages Known	:	English, Tamil,Telegu(S) and Kannada(S)
Permanent Address	:	11/9, Palaniyappa Naicker Street, Kulathupalayam,Kovaipudur(Post), Coimbatore, Tamil Nadu- 641042.

Declaration

I hereby declare that all the details given above are true to the best of my knowledge and belief and I assure you that I will work in the right earnestness and fulfill the expectations of my superiors.

(S.Senthamilarasu)