

# SAVITHRI K

## LEAD INTEGRATION CONSULTANT

### Summary :

I am Savithri K and I am working as Lead Integration Consultant with Cerner Corporation . I have **overall 13 years' experience** into Healthcare IT Industry . My journey started as Java Developer with **SIEMENS** in the 2008.

I have a bit off a diverse job history . I have had different positions with multiple teams. I did work as Java developer, Business Analyst ,Team Lead, Junior Project Manager, Automation Engineer, Enterprise Architect and Integration Consultant/Architect. I can help everywhere in the stack and I love wearing multiple hats to an extent. Although, I do think my strongest skills are with Integration Implementations as Enterprise Architect/Integration Architect.

Most of my positions utilized agile-like development processes using JIRA. I am also a certified scrum master with Scrum Alliance and TOGAF 9 Certified Professional.

I have upgraded my skillset with AIML and planning work on the carrier transition towards getting expertise on this field .

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### Key Skills :

**Integration Implementation** : End to End Integration Implementations, HL7 v2,v3, Integration Engines

(CERNER OPENLink & OPEN Engine), Requirement/Gap Analysis,

**Data Science/Machine Learning**: Python for Machine Learning, Data science and Visualization, Statistical methods for decision making, Computer vision, NLP

**Development**: Python, Perl scripting, Selenium automation, C#, SQL, Core Java

**Leadership** : Agile Development Methodologies (SCRUM, KANBAN), Project and People Management.

**Certifications** : TOGAF 9 certified and Certified Scrum Master

**Work Experience** : Total 13 Years' experience into Health Care IT industry

**Current Organization : CERNER (2015 to till date)**

**Integration Consultant/Manager:** 3.4 Years (2017 Nov – Till date) in Tech Integration team.

**Enterprise Architect:** 2.8 Years (2015 Feb – 2017 Oct) in Tech Integration team.

**Previous Organization : SIEMENS (2008 to 2015)**

**Team Lead/Associate Consultant:** 2.9 Years (2012 April – 2015 Jan) in Integration Team.

**Senior Software Engineer:** 2.5 years (2009 Sep – 2012 Mar) in Development, Project Management Team.

**Software Engineer:** 1.5 years (2008 Feb -2009 Aug) in SIEMENS Development Team.

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**Projects of Post-graduation in AIML on Healthcare/Medical domain :**

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I have completed 13 projects on AIML modules in different domains like Healthcare, Banking, Medicine, Object recognition, Cement manufacturing & E-commerce .

**1<sup>st</sup> Project : Ensemble Techniques**

**Data Description & Context:** Parkinson's Disease (PD) is a degenerative neurological disorder marked by decreased dopamine levels in the brain.

**Objective:** Goal is to classify the patients into the respective labels using the attributes from their voice recordings.

**Out comes :** Here, I have thoroughly analyzed the data set and come up with the below conclusions. There is a total of 195 rows of data or patients with 23 feature columns. The voice measurements are from 31 people, 23 with Parkinson's disease and 8 without. In this data set, 147 of the rows have Parkinson's whereas 48 do not. The features themselves are related to the frequency if a patient's vocalizations. There seems to be no abnormalities about the input space or data set to report. No values are missing from the data set. In this Ensemble Techniques machine learning project, we learned to detect the presence of Parkinson's Disease in individuals using various factors. We can make use of XGradient Boosting (94.9%), SVM (91.5%) & LR(83.1%) techniques for predictions and decision making. We can also use stacking technique with combination of all these classification methods to increase the accuracy of the prediction. Here, with meta classifier - we achieved 97.8% of accuracy in predicating /classifying the patients into the respective labels using the attributes from their voice recordings.

## **2<sup>nd</sup> Capstone Project: Computer Vision: Pneumonia Detection**

**Data Description & Context:** The model had to be extremely accurate because lives of people are at stake. Pneumonia accounts for over 15% of all deaths of children under 5 years old internationally. In 2017, 920,000 children under the age of 5 died from the disease. The dataset is organized in several files and folders. Medical Images are stored in a special format known as DICOM files(\*.dcm). They contain a combination of header metadata as well as underlying raw image arrays for pixel data

**Objective:** The objective of this project was to explore the dataset for Pneumonia Detection challenge and build a model which can automatically identify whether a patient is suffering from pneumonia or not by looking at chest X-ray images (CXR).

**Out comes :** Automating Pneumonia screening in chest radiographs, providing affected area details through bounding box. Assist physicians to make better clinical decisions or even replace human judgement in certain functional areas of healthcare (e.g. radiology). Guided by relevant clinical questions, powerful AI techniques can unlock clinically relevant information hidden in the massive amount of data, which in turn can assist clinical decision making. With our Implementation, ResNet model can provide up to 97% accuracy in detection. This in turn can assist Physicians to detect pneumonia faster than normal trial.

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## **EXPIREANCE :**

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**CURRENT Organization : CERNER Corporation. Here, I am worked as an Enterprise architect and currently, working as Lead Integration Consultant**

Environment: HL7,XML, JSON,CERNER OPENLink and OPEN Engine Integration Engines  
Role: Lead Integration Consultant

### **Project Description:**

CERNER Integration team caters the service of building communication links between different systems within the hospital through its well-developed OPENLink Interface engine. This team provides offshore consulting and implements the interfaces for Siemens HIS /CERNER HIS to communicate with other systems such as Registration, Billing, Radiology, Laboratory, Pharmacy, Nursing systems so that the patient data is shared across hospital for providing better service and securing the PHI.

We will interact with customers to understand their requirements/architecture of their product to provide solution to integrate their products.

### **A day in my life may consist of :**

- I will Participates and provides leadership in management meetings with US,UK, Middle East and Indian clients on Integration Projects.
- Responsible for overseeing the day-to-day operations of the team, Team meetings distributing the workload evenly among Associates as per their area of expertise and making sure motivation and performance levels are maintained.

- Implementing HL7 standard Compliant (HL7 v 2.x & 3 ) Real-Time & Batch Interfaces using Integration Engines (SIEMENS/CERNER OPENLINK, OPEN ENGIN ), performing mapping, transformations and testing and Go-Live support events. Web-service Implementations in Integration projects.
- Implementing HL7 Inbound and Outbound Interfaces through CERNER OPEN Link and CERNER OPEN Engine's. Managed various Interface messages and triggers such as A01, A02, A03, A04, A08, A17, A18 and other types of HL7 Messages: SIU, ORM, ORU, DFT, MDM etc.
- Drive tools development, troubleshooting, and compliance across organizations and Make final determinations related to external project issues, risks and escalations.
- Defining and planning the project scope with the management and vendor/client teams and setting project deadline.
- Gathering project requirements and doing analysis by directly interacting with client/vendor team to fully understand their needs and expectations. Performed Gap Analysis on vendor requirements for creating new Interfaces and enhancing existing Interfaces.

In addition to Integration Implementation's , I am also working on selenium automation project and Cerner Workflow validation tasks. I have helped process improvement tasks like JIRA transition, creating process documents. We utilize wiki repositories and GitHub pages for our documentation.

**PREVIOUS Organization: SIEMENS : Worked as Associate Consultant/Team Lead/Junior project Manager/Developer**

**At my previous job**, I was responsible for developing, implementing and maintaining mostly internal/external Integration projects and clients. I collaborated with technical and business staff in the design, development, testing, implementation and production support of Interfaces for enterprise applications.

**Team 1 : Professional Services Integration: (FY 2012 – FY 2015)**

Environment: Siemens OPENLink, HL7, Remedy, Siemens Applications

Role: Team Leader/Integration Consultant

**Responsibilities:**

- Analyzing, Designing, Implementing and Testing Interfaces of company's proprietary hospital management software applications using HL7 and OPEN Link Tool.
- Responsible for overseeing the day-to-day operations of the team, distributing the workload evenly among Associates as per their area of expertise and making sure motivation and performance levels are maintained. Primary contact with the customer through email, phone and ticketing system.
- Running MOF/LOF Projects which include 100 + Interfaces as Integration Consultant.
- Supporting Go-lives; Creating global metrics, trend charts and other decision-making tools for betterment of team utilization.

- Process owner for the team of 14 members and Owner of Critical Care Implementations as a Primary Integration Consultant.

**Team 2:** Project Management Office: (FY 2010-FY 2012)

Client: Siemens Role: Team Lead/Junior Project Manager

Environment: Primavera, People Soft, EZ-X

**Responsibilities:**

- Developed streamlined procedures that decreased labor time and eliminated redundancies.
- Preparing status reports based on daily/weekly/monthly/yearly.
- Managed six member's team with very minimal Interruption of Project Manager and earned a "Best Team" award for outstanding customer service and teamwork.

**Team 3 :** Product Development Team (FY 2008 - FY 2011)

Clients: Siemens Starter Set and multiple customers.

Role: UI Developer Environment: Core Java, Flex 2.0, SQL

**Responsibilities:**

- Analyzing, Designing, Implementing and Testing Clinical documents and Reports as per customer requirements.
- Point of contact for Clinical Doc's team.

SV Trainings