

Data Engineer and Backend Developer

**SRINIDHI SRIDHARAN**

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Portfolio:



## Professional Summary

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An Analytics consultant with 2 years of experience and well versed in data engineering and backend development especially in Cloud platforms. Has a proven track in working in Research based roles and later moving on to become data architect.

## Technical Skills

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Database Development - **SQL, NoSQL**  
Python for Data Science - **Pyspark, Pandas**  
**Java, Nodejs, C++**  
Data Modelling, Data Wrangling, Web Scraping  
**Hadoop, Apache Spark**

**SAP Cloud Platform** - CloudFoundry Development  
**SAP HANA**, SAP Predictive Analytics and **BI Tools**  
ML Algorithms (Classification, Clustering, Regression)  
**R basics**  
**Jenkins for CI**

## Education

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**BACHELOR OF ENGINEERING , COMPUTER SCIENCE AND ENGINEERING – Meenakshi Sundararajan Engineering College**

- **CGPA: 8.84.** University Rank Holder (**Rank 24 out of 16,499 candidates** under Anna University , **Rank 3 in Overall CS department** in College)
- Awarded endowment prize for best academic performance, recognition for consistent performance in Semesters by Department of Mathematics.
- Member of NSS, College Choir, Overall coordinator for technical events in University cultural.

**HIGHER SECONDARY - D.A.V HIGHER SECONDARY SCHOOL , MAJOR IN COMPUTER SCIENCE**  
Secured **97%** and awarded a cash prize for best academic performance

**CLASS X - HINDU SENIOR SECONDARY SCHOOL**

- **10 CGPA. Present in Roll of Honour**
- Multiple awards as vocalist in inter school cultural

## Work Experience and Projects Handled

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### FREELANCER

**ML PLATFORM DEVELOPMENT, ML ENGINEER - [PAVO AND TUSKER INNOVATIONS](#) ( APRIL 2019 - MAY 2019)**

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#### RESPONSIBILITIES:

- ML Engineer. Built and deployed a Spark engine using Pyspark and Pandas.
- Automated the process of data preparation, visualization based on cross validation techniques after fitting into model
- Interactive tool for Data Scientists to load data, choose models and visualize the prediction results.
- Algorithms Supported in Engine during Beta stage - SVM Classifier, Logistic regression, Linear Regression, K-means clustering.

## ASSOCIATE CONSULTANT, DATA ENGINEERING - [KAAR TECHNOLOGIES](#) ( AUG 2018 - JULY 2019 )

PORTAL APPLICATION DEVELOPMENT - BACKEND DEVELOPER ,SAP CLOUD PLATFORM

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CLIENT: SAP LABS - WALLDORF, GERMANY

### RESPONSIBILITIES:

- **Lead** the Project on Sprint Deliverables and Architecture Analysis, creating User Story boards to track the Application Usage and User metrics.
- **Responsible** for Backend – Database and API development using SAP HANA Database , Nodejs, Python and SAP **ANALYTICS** Cloud
- **Early Adopter** and **Evangelist** of SAP's New Cloud Foundry based Cloud Platform

## ANALYTICS CONSULTANT, CENTER OF EXCELLENCE - KAAR TECHNOLOGIES (OCT 2017 - JULY 2018)

### PROJECT IMPLEMENTATIONS:

REVAMPING THE REPORTING LANDSCAPE TO IN MEMORY COLUMNAR DATABASE WITH REAL TIME DATA INSIGHTS - BI CONSULTANT

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DURATION: JAN 2018 - FEB 2018, MAY 2018 - JULY 2018

CLIENTS: DAVID BROWN SANTASALO, UNITED KINGDOM  
FIRST SOLAR INC, UNITED STATES

### RESPONSIBILITIES:

- **Guided** the customer on migrating the current Landscape to SAP In-Memory Data platform after analyzing the existing Reporting Landscape
- **Revamped** the Visualization Platform from Traditional BI to Modern SAP Fiori based UX and third party reporting tools
- Data Validation and Cleanup of Current Data Dictionary
- Visualization using Dashboards with Drill Down capabilities
- Worked with multiple BI tools - **SAP Analytics Cloud, SAP Embedded analytics , Tableau, MS Power BI**

### PROOF OF CONCEPTS/ PROJECT PROPOSAL:

- **ARCHITECTED THE SOLUTION AND IDENTIFIED THE PREDICTIVE MODELS FOR INDUSTRIAL INCIDENT PREDICTIONS (APR 2018 )**
  - **Architected** the Platform for Running Predictive models on SAP HANA (In memory Database)
  - Historical Incident **Analysis**
  - **Identified** the suitable models for Incident Severity Classification and Accident Prediction based on Parameters like Employee Training
- **DEPLOYED ML ALGORITHMS FOR EXTENDED WARRANTY RATE PLANNING, PROOF OF CONCEPT , SAP PREDICTIVE ANALYTICS (MAR 2018)**
  - **Pioneered** the usage of SAP Predictive Analytics Library feature
  - Utilized the Pareto Analysis or ABC Model to identify the top contributors to warranty Rate Planning
- **COMPETITIVE ANALYSIS OF PARTNERS - WEB SCRAPING AND SEGMENTATION FOR MARKETING TEAM IN KAAR TECHNOLOGIES (DEC 2017)**
  - Set up Web crawler to Crawl through the Partner Websites and scrapped their information
  - Data Modelling to obtain Relevant insights on their major selling products contributing to their revenue to understand Kaar's competitive edge.
- **HEALTHCARE KPI DASHBOARDS FOR MINISTRY OF HEALTH, KINGDOM OF SAUDI ARABIA (NOV 2017)**
  - Created dashboard Prototypes for a \$10M+ Analytics proposal demo
  - **Identified** Key Performance Indicators for Healthcare and Diseases
  - **Provided Solution** on Data Orchestration from multiple External Sources

## Internships

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### **SMART DATA INTEGRATION - CENTER OF EXCELLENCE , KAAR TECHNOLOGIES**

- Proof of concept\* on Smart Data Integration - Remote access of data from cloud and on premise systems and visualizing it on SAP In memory columnar Database - HANA
  - Initiated the integration of Virtual Data from External Cloud Sources.
  - HANA and XSA administrator - Revamped SAP HANA Platform to Support XSA Development and deploying predictive models
  - Monitored and handled the Application and platform lifecycle management.
- \*Proof of Concepts are created as part of feasibility analysis of an idea or an approach from technology standpoint.

### **PARALLEL PROCESSING USING HADOOP AND MAPREDUCE - BIG DATA DEVELOPER , KRISH IT**

- Social Network Graph analysis using Hadoop MapReduce
- Working with unstructured Big data using Hadoop , Map Reduce in Python
- Initialized hadoop cluster nodes.

## Volunteer Experience

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### **EX-COMMITTEE MEMBER AND COMPUTER SCIENCE TUTOR - SYMA , TRIPLICANE, CHENNAI**

- Introduced the Computer Science Subject in their Growth Initiative and served as CS tutor for an year
- Hosted events , Digitized their charity activities

### **NATIONAL SERVICE SCHEME MEMBER , MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE**

- Spearheaded the Swachh bharat initiative inside my college

### **PYLADIES - MEETUP FOR WOMEN IN TECH**

## Awards and Achievement

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### **PANEL'S CHOICE - ONE DAY ANGEL HACKATHON, ANGEL HACK**

Responsibee - A Hyper-local application that provides credit scores to citizens based on their community participation. Played my part as Backend NOSQL developer using NoSQL Database - MongoDB.

### **ACADEMIC EXCELLENCE, MEENAKSHI SUNDARARAJAN COLLEGE**

Awarded Silver medal as Endowment Prize for Academic Excellence in 4th and 5th semesters

### **BEST SINGER - ANNA UNIVERSITY , GUINDY**

Emerged as the best singer in the intercollegiate music competition for NSS volunteers

### **MEMBER OF THE BOARD COMMITTEE (2017 - 2018)- NGO, SYMA**

Unanimously Elected as a committee member for serving in NGO in multiple roles for a year

### **DATA SCIENCE AND ENGINEERING EVANGELIST - KAAR TECH OMEGA INITIATIVE**

Got selected as [Data Science Evangelist](#) in Kaar Tech's Initiative for technological adoption into the company based on my initiatives taken within the company for Improving their exposure to Data Science and Engineering

## Courses and Certification

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### **TAMING BIG DATA WITH MAP REDUCE AND HADOOP - LEARNING MAP REDUCE JOBS USING MRJOB - UDEMY**

### **DIPLOMA IN COMPUTER APPLICATION COURSE WITH CSC COMPUTER - C,C++**