

# ASHA.J

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## Objective:

A proactive and fast learning individual seeking an opportunity to work as a dynamic Data Scientist utilizing analytical & methodical skills and relevant expertise to help the company achieve business goals while sticking to vision, mission and values.

## Achievements :

Title	Work Done	Technologies used	Reward
<b>Smart Parking System</b> (Oct 2019 - Nov 2019)	Smart parking system uses sensors to create a real-time feed of the parking occupancies. This data is aggregated and fed to an ML engine for training on demand forecasting. We also developed a Mobile App that allows the admin to set dynamic pricing based on the forecasted demand. The App also allows end users to view the pricing models and make parking reservation in real time.	<b>Hardware</b> : IR sensors (FC-51) and Arduino uno R3 boards <b>ML framework</b> : Tensorflow / Keras <b>Mobile App Framework</b> : Android Studio <b>Data Collection</b> : 1. Real world data : CityOfSeattle - (2014-2018) (15000 entries) 2. Synthetic data of 50000 parking occupancies : A. Central Business District – 25,000 entries B. Mall Dataset – 25,000 entries <b>Preprocessing methods</b> : Data Cleaning, Format Recognition, Database Creation <b>ML architecture</b> : Three layer neural network architecture.	<b>Ericsson R&amp;D, Bangalore,</b> India Level & Global Level: First Prize

## Technical skills:

<b>Programming Languages</b>	: Java
<b>Markup Languages</b>	: HTML, CSS, Bootstrap
<b>Scripting Languages</b>	: Python, R, PHP, jQuery, Ajax , JavaScript
<b>Data Visualization</b>	: Matplotlib, D3, Plotly
<b>Python Libraries</b>	: Core : Numpy, Pandas, SciPy, Machine Learning : SciKit-Learn Deep Learning : Keras / TensorFlow Natural Language Processing : NLTK

<b>Frameworks :</b> Symfony 2.5
<b>Operating systems:</b> Linux-Ubuntu, MS-Windows 7 Professional N, macOS
<b>Database:</b> MYSQL, MYSQL Server
<b>IDE:</b> Pycharm, IntelliJ, Eclipse, R studio, EZR, NetBeans IDE 8.0

## **INTERNSHIP:**

<b>Company</b>	<b>Role</b>	<b>Technologies</b>
REDSEAL Networks from Jan (2014) to Mar (2014)	Extension of REDSEAL NISM (Enterprise Network Visibility of Amazon Cloud Infrastructure) platform to support cloud.	Eclipse IDE, Java, XML parser and AWS (Amazon Web Services), EC2 services.
S.K.Access Pvt Ltd. from June(2014) to Dec(2014)	Worked on an ERP Project for a Granite Industry using Symfony 2.0 Framework	Notepad++ IDE, Git Bash, MySQL server, Mozilla Firefox, Tortoise SVN, Bootstrap and MVC, Flot graphs, postmark, bashsms, mailto, etc..

## **WORK EXPERIENCE:**

<p><b>Company : Ericsson R&amp;D, Bangalore.</b>  <b>R&amp;D Intern, May 2018 - Present</b>  An efficient team member working on an IoT Cloud Project in Research and Development team. Project based on providing the “provenance-as-a-service” i.e., distributed provenance across IoT devices, edge and cloud. Responsible for the end to end development of Data Provenance on the IoT device i.e., Raspberry Pi 2 and on Edge.  Technologies Used : Swagger REST API, TinkerGraph, VerneMQ Broker, MQTT Protocols, Graphexp : graph visualization explorer, Apache Pulsar, Apache Atlas.</p>
<p><b>Company_: S K Access Pvt. Ltd., Bangalore.</b>  <b>3 Years of experience as a Software Engineer.</b>  <b>Software Engineer II (Senior Team Member )</b>  As an efficient team member I have played a prominent role in developing the ERP project. Project was based on developing an ERP for the Granite industry. Responsible for the design and development of the HR module, Purchase module, Stores module, Accounts module in the project. Along with the development, Testing the modules on the cloud and documentation of all the modules that was my responsibility.  <b>Frameworks Used :</b> Symfony 2.0  <b>Languages &amp; Technologies :</b> Object Oriented PHP, jQuery, Javascript, Ajax, Bootstrap, CSS, GIT BASH, SVN, MYSQL</p>

## **PROJECTS AND PRESENTATIONS:**

<b>TITLE</b>	<b>ROLE</b>	<b>TECHNOLOGIES USED</b>
<b>A Distributed Data Provenance for IoT-based Systems. (Ericsson India Global Services, May 2018 - May 2019) (Pursuing)</b>	Project based on providing the “provenance-as-a-service” i.e., distributed provenance across IoT devices, edge and cloud. Responsible for the end to end development of Data Provenance on the IoT device i.e., Raspberry Pi 2 and on Edge.	Swagger REST API, TinkerGraph, VerneMQ Broker, MQTT Protocols, GraphExp : graph visualization explorer, Apache Pulsar, Apache Atlas.
<b>Retrieval of vital patient information from the discharge summary (SOIS, JAN 2018 - APRIL 2018)</b>	The main objective of this project are, <ol style="list-style-type: none"><li>1. Prepare a Detailed report of the Discharge Summary (DS),</li><li>2. Abstract report of the DS,</li><li>3. Classification of various categories of fields based on the user’s choice.</li><li>4. Search based retrieval of records in both detailed and abstract format.</li><li>5. Prediction of various heart related problems using the information from the Discharge Summary by applying various machine learning techniques.</li><li>6. Improve the quality of the DS through the digital system.</li></ol>	Python (Business logic), Python Packages: Numpy, Pandas, Polyplot, MySQLdb and Matplotlib, docx, pytoHTML, Machine Learning Algorithm : SVM Classifier
<b>Data Visualisation And Analysis Of Sanitation And Hygiene Based On Geospatial Data (SOIS, JULY 2017 - DEC 2017)</b>	Main objective is to understand the global context of sanitation and hygiene, and to review the major problems due to lack of sanitation. Different Phases involved in the process of development were, Data Collection, Data Visualisation, Data Analysis etc., For 4 months.	JavaScript (Front-end), High Charts (Data Visualization), Python (Business logic), Python Packages: Numpy, Pandas, Polyplot, MySQLdb and Matplotlib, MYSQL (Database), Backend : Phpmyadmin, Testing Methodologies : Manual Testing, Integration Testing
<b>Cloud Data Retrieval for Multi Related Keywords based on Data Mining Technique (BNMIT JULY 2014)</b>	In this work, an efficient data mining technique is used to retrieve encrypted cloud data for multiple related keywords. It ranks cloud data based on end user feedback on top of existing ranking algorithms which simply relies on keyword occurrence	Drive HQ cloud, java, servlets, data mining k-means algorithms

	in a document increases the accuracy of data retrieved. For 6 months.	
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### **Education Qualification:**

Course	University/Board	Year	%/CGPA
Master of Engineering, Big Data and Data Analytics	School of Information Science, Manipal University.	2017-2019 Still Pursuing	CGPA Semester 1 - 8.88 Semester 2 - 8.84
Bachelor of Engineering, Information Science	BNM Institute of Technology Affiliated to VTU	2014	68%
Diploma In Computer Science	The Oxford Polytechnic, Bangalore	2011	71.54%
SSLC	Karnataka Secondary Education Examination Board	2006	68%

### **Extra-Curricular Activities:**

- Active in Social Service. Active member of Nature Club Aluminate team, BNMIT.
- Member of the Technical and Cultural festival organization team in both school and college.
- Active member of SOIS Music club and Voluntary Service Organisation (VSO), Manipal University.