



## PROFILE

A Simplistic Data science professional with strong experience in Machine Learning, Deep Learning and Statistical Modeling. Experience building fast and accurate end to end applications involving data science for different domains.



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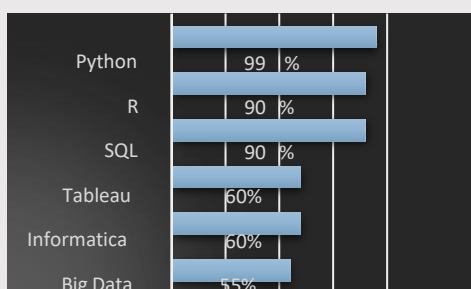


[hari31792@live.com](mailto:hari31792@live.com)

## CERTIFICATION/COURSES

- Data Science Specialization
- Neural Networks & Deep Learning
- Apache Spark Fundamentals
- Informatica Power center Certified PG Program in Artificial Intelligence and Machine Learning – Great Lakes

## TECHNICAL SKILLS



## AREAS OF EXPERTISE

- Programming Skills Machine Learning, Deep Learning
- Data Mining and Processing Data Visualization
- Scalable End to End Data Science Solutions
- Big Data Technologies
- Communication and Interpersonal Skills

# HARIHARAN RAJARAM

Data Scientist

Author of the Book — Say the Unsaid through Analytics  
Multiple Patent Holder

## WORK EXPERIENCE

### HP R&D India – Data Scientist

Sep 2019 – Till Date

- Designed and implemented Machine learning models on the Edge and Federated Learning Technique for KPI Performance Analyzer.
- Developed an analytics-based solution for improving quality of 3D prints by detecting anomalies in the print job of each 3D printers.
- Designed and Implemented End to End ML Framework using Celery, RabbitMQ, Flask to auto schedule Printer data messages into Machine Learning Pipeline and generate analytic reports.

### Verizon India – *Analyst (Data Science)*

Sep 2018 – Till Date

- Designed the end to end architecture for recommendation engine of documents that sales users need to refer to win an opportunity.
- Implemented Associative Rule Mining Algorithm. Evaluation done based on lift, support and confidence metrics. Integrated shiny app to visualize the end results and recommendations in an UI based format for customer.
- Improved performance by 40%.
- Developed virtual assistant Chatbot using Google Dialog Flow for Entity recognition, establishing connections to Internal APIs using Python REST and relaying the information back in near real time to Front end developed with Flask, Angular JS.
- Owned and collaborated with business and IT stakeholders.

### HCL Japan - *Senior Software Engineer (Data Science)*

June 2017–Aug 2018





- Developed an analytics-based solution for predictive maintenance of printer components for effective life utilization and to avoid service delays. Used techniques like Generalized Linear Regressions, Gradient Stochastic models, Ensemble Trees model and Survival analysis models to find out the best usable model that predicts the replacement of machine timeline effectively and inform the service engineers
- Leading the offshore team in technical activities and communicating face to face with Client and understanding the requirements.
- Reduced Model Training time to over 20% by tuning the hyper-parameters of the model and data cleanup.
- Creation of Information Links in Tableau which maps the Data from SQL Backend into the format for Dashboard Analysis Creation of Tableau Dashboards ranging from Top Management Map Chart ad-hoc reports to minute data level detailed report based on a standard Data warehouse model with custom filters and inbuilt scripts for user-based authentication for login using Data functions written in R for Tableau.

### HCL India - *Senior Software Engineer (Data Science)*

Feb 2016–June 2017

- Creation of Machine Learning Model for printed images to identify defects occurring out of each print from production printer. Feature engineering done using Image Processing methods like SIFT, HOG to highlight regions of defect area for better identification of defects.
- Creation of Deep Learning Running Model on Theano Framework with G++ enabled compiler in local Environment for defect image identification with accuracy of 99%. Multi Class Model to classify the defects by their known and applying various statistical tests to validate the model and features.
- Designed an analytics based solution for finding out relationships

## AWARDS AND RECOGNITION

-  Above and Beyond Excellence award by VP in 2015 by GE Capital
-  Live Wire Award in 2017 by HCL
-  Authoring book on Data Science
-  Runner up in Internal Deep Learning Hackathon

using Word2Vec Neural net, LSTM algorithm to retrieve the inputted sentence and generate the response based on prediction of next word with syntactic similar word groupings, n gram model with cosine similarity used partially to derive the closeness of words associated with each other. Designed Topic Model solution using genism package that segregates mails based on the body content for finding out topics discussed and link to the points of contact involved for those topics discussed.

### GE Capital India – *Junior Software Engineer* Jul 2014–Sep 2015

- Work Experience in Informatica ETL development and in Oracle SQL Language for Sourcing spends of GE business verticals.
- Expert Understanding of Data Warehouse Concepts, Kimball Methods, and Data Profiling
- Hands on development in Key mappings related to the project. Excellent Team worker with eagerness to learn and to guide vendor teams and team members on my findings and knowledge.
- Experience spans over end-to-end life cycle of real time applications such as understanding business requirement, client- side implementation, creating design documents, decomposing in to functions, coding and maintains.

## EDUCATION

PGP in Artificial Intelligence and Machine Learning Science – Great Lakes Institute of Management in collaboration with University of Texas **(2019 - present)**  
BE Computer Science – PES University, Bengaluru, India **(2010 – 2014)**