**RIDDHIMAN SHERLEKAR**  
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| EDUCATION |

**Master of Science, Industrial Engineering 08/2017 – 05/2019**

*North Carolina State University, Raleigh, NC, USA* **CGPA: 3.75**

*Coursework*- Machine Learning,Data Mining, Applied Artificial Intelligence, Stochastic Modelling, Business Analytics, Statistical Programming (SAS), Database Applications and Management, Production Planning, Inventory Control

**Bachelor of Technology in Computer Engineering 07/2013 – 08/2017**  
*Pandit Deendayal Petroleum University, India*  **CGPA: 3.75**

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| SKILLS |

* Programming/Statistical Modeling: R, Python, SAS, JavaScript, HTML 5, CSS, NodeJS, Apache Spark
* Data Management: SQL (PostgreSQL Server), MongoDB, CouchDB, MS Excel (VBA), SSIS, SSRS, SSAS
* Data Visualization: Tableau, MS PowerPoint, Power BI, ggplot2, matplotlib, D3.js
* Other skills: AWS, Apache Kafka, Apache Spark, Hyperledger Fabric, Hyperledger Composer, Docker, Postman API Service, A/B (Hypothesis) Testing, Jupyter Notebook

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| WORK EXPERIENCE |

**Graduate Research Assistant (Data Engineering) |DIME Lab, NCSU** 04/2018 – Present

* Designed a system architecture to extract real-time data generated from MTCONNECT enabled machines.
* Scalably store the extracted data via Python oracle into a PostgreSQL database server.
* Replicated specific views of a PostgreSQL database into a MongoDB database Design
* Developed a private Blockchain business model on Hyperledger Fabric for secure data exchange in a digital manufacturing environment
* Built smart contracts in JavaScript which trigger events and report KPI’s such as Overall Equipment Effectiveness onto the Blockchain and exposed the business network via a Composer REST API.
* Build an Industry scalable data pipeline for cyberphysical systems which leverage the concept of Fog computing to decentralize and distribute the unstructured data generated by Iot enabled manufacturing machines.
* Expose the data from fog nodes via NodeJS REST Servers, Pub-Sub model using Apache Kafka for Fog nodes
* Predictive Analytics using Random Forest algorithm using Python on the Cloud to predict tool wear from the data.
* Query Data retrieval using Apache Hive and Apache Pig from distributed databases.

**Student Consultant (Venture Opportunity Analytics) |Onda Vision Technologies LLC** 08/2018 – 12/2018

* Market segmentation & analysis for a wearable hydration monitor with a cross functional team.

**Data Science Student Consultant| Lenovo, Data Center Group, Morrisville NC**  08/2017 – 12/2017

* Performed Predictive Analysis in R for best service delivery method of a machine in warranty using the concepts of Stochastic Modelling, Regression, Clustering and. Multivariate Statistical Analysis.
* Created reports on machine movements, cluster data using R, Tableau and Excel

**Supply Chain Analyst Intern** | **CASE Construction Pvt Ltd** 12/2015-02/2016

* Worked with manufacturing and production team to provide analytical insights for process improvements.
* Developed demand forecasting model in R using time series analysis for planning master production schedule.
* Mined data using SQL to perform analysis for strategic inventory positioning and demand-driven planning.

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| ACADEMIC PROJECTS |

**A Comparison of CNN and Recurrent ConvNet in Image Classification** 08/2018 - 12/2018

* Comparison of Deep Convolution Neural Network and a combination of Recurrent and Convolution Neural Network for Classification of 3D images of manufacturing parts and assemblies using Keras.

**Database Application to Automate Loss Identification on Shop Floor Data Flow, Data Delivery** 02/2018 - 04/2018

* Development of an interactive application using SQL in MS Access and IDEF Models using MS Visio.

**Sentiment prediction of the Airline customers by applying learning algorithms to tweets** 01/2018 - 04/2018

* Pre-processing (POS tagging, Lemmatizing) & Feature Extraction using NLTK, implemented Decision Tree (ID3 algorithm) from scratch in Python, accuracy of ~87%. Complex data sets
* Compared the results with k-nearest neighbors, Random Forest and Naïve Bayes algorithm using Scikit learn.

**Real Time Dashboard of MTCONNECT enabled Machines** 01/2018 - 04/2018

* Data Extraction using Python, stored data in PostgreSQL database, real time dashboards in Tableau