# Gaurav **Sharma**

INDUSTRY 4.0 . DIGITIZATION . DATA SCIENCE

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## **Sum**mary

11+ years of experience in Automotive Manufacturing Industry in Advanced Manufacturing Analytics, Data Science, Machine Learning, Industry 4.0, Factory Digitization, Plant Maintenance, Equipment Reliability and End to End Operation in Manufacturing. Functional and Configurational Exposure to SAP PM and RCM. Demonstrated ability to work across cross-functional teams, independently and proactively.

## **Edu**cation

**Indian School of Business**                                                                                                                            *Hyderabad, IN*
ADVANCED MANAGEMENT PROGRAM IN BUSINESS ANALYTICS (AMPBA)                                                                      *2018-19*

**Jaipur Engg. College & Research Centre, University of Rajasthan**                                                      *Jaipur, IN*
BACHELORS OF ENGINEERING (B.E.)                                                                                                                             *2004-08*

## **Wor**k Experience

**FREELANCER**                                                                                                                                                        *Jaipur, IN*
MANUFACTURING & ANALYTICS                                                                                                                      *Apr. 2019 - Present*
• Independent Assignments related to Manufacturing and Business Analytics

**NEI LTD.**                                                                                                                                                               *Jaipur, IN*
MANAGER - DIGITIZATION                                                                                                                           *Apr. 2017 - Mar. 2019*
• Responsible for driving Digitization and Data Science Projects under Smart Factory Initiative. Building PoCs and Manufacturing Analytics use cases in manufacturing shop floor using advanced statistical and modern machine learning (supervised and unsupervised) methods
• Responsible for scaling analytical capabilities across manufacturing value chain. Converting Business Challenges into Analytical Problems and implement solutions independently. Responsible for bridging the gap between implementation partners and senior management in terms of requirement freezing and project management and KPI monitoring.
• Data Mining & building ML Models – Prediction, Classification, Clustering, Time Series Forecasting, Simulation using Statistical Computer Language R/Python to draw inferences and conclusions from large data samples. Hands on experience of working on Data pre-processing, Feature Engineering, building Machine Learning Models and Ensembles, Hyperparameter tuning.

**NEI LTD.**                                                                                                                                                               *Jaipur, IN*
MANAGER - OPERATIONS & MAINTENANCE                                                                                              *Apr. 2013 - Mar. 2017*
• Responsible for achieving /surpassing departmental KPIs such as Availability, MTTR, MTBF by using continuous improvement (TPM/TQM) tools and methodologies. executing improvement projects and new equipment installations, adherence to TPM standards., reduce downtime and maintenance cost, identification and execution of cost reduction projects.

**NEI LTD.**                                                                                                                                                               *Jaipur, IN*
ENGINEER - OPERATIONS & MAINTENANCE                                                                                              *Aug. 2008 - Mar. 2013*
• Full operational responsibility of electronic maintenance & planning of Industrial Equipment and Machinery, Robotics Automation, Industrial Automation, PLC Data Acquisition System. Overall responsible for department's planned and unplanned maintenance program which includes breakdown, preventive and predictive maintenance planning and execution.

## **Pro**jects - Data Science

**PREDICT DEFECTIVE PARTS IN PRODUCION LINE USING MACHINE LEARNING**                                        *Jaipur,IN*
NEI LTD.
• A successful PoC to detect parts that may fail the quality control test. High dimensional event and measurement data coming from various machines was used. A two-step approach of clustering and decsion tree to create clustred models was used for prediction.

**VEHICLE DAMAGE DETECTION USING DEEP LEARNING**                                                                                    *Jaipur,IN*
NEI LTD.
• Capstone project for an auto insurance startup to create a business workflow on how to detect damage using deep learning (Faster RCNN and Mask RCNN Models) and predict the cost of repair beforehand to assist the insurance provider in minimizing the overall turnaround time. Won Best Capstone Award for successful PoC in ISB.

# Projects - Industry 4.0

### WORKFORCE MANAGEMENT DASHBOARD & ANALYTICS                          *Jaipur,IN*

NEI LTD.

- Digitized workforce visibility in the entire plant. Implemented for white- and blue-collar employees. Created the entire cyberinfrastructure and a real-time dashboard that updates the supervisors and managers on availability of skilled workforce available in shift and also provide suggestions based on man-machine skill matching to minimize losses occurring due to skilled workforce unavailability. Lead change management.

### ENERGY MANAGEMENT DASHBOARD & ANALYTICS                          *Jaipur,IN*

NEI LTD.

- Digitized energy data generation and collection workflow. Implemented a real time dashboard for different management levels. Intelligent features such as event triggering using anomaly detection and automated MIS

# Projects - Manufacturing

### RCM IMPLEMENTATION                          *Jaipur,IN*

NEI LTD.

- Implemented Reliability Methodology in entire plant over across 1500 equipment. Drove entire project, ABC Analysis, conducted failure mode effect analysis (FMEA), performed asset criticalities, equipment cares strategies and maintenance policies to make reliability predictions for complete plant. Increased productivity by 21% on model lines. Lead change management.

### SAP PM – CMMS IMPLEMENTATION                          *Jaipur,IN*

NEI LTD.

- Designed SAP PM Process, As-Is To-Be Mapping, prepared master data for the Plant such as Functional Locations, Equipment & Sub-equipment, BOMs, Planner Groups, Work Centers, Measuring Points, Counters, Tasks Lists, Maintenance Packages, Maintenance Plans, Notifications, Breakdown & Preventive Orders. Achieved 90% process digitization. Lead change management.

# Skills

### Data Science

Data Wrangling, Feature Engineering, Model Building, Data Visualization, Machine Learning, Statistical Analysis

### Languages & Applications

R, Tableau, Some SQL & Some Python

### Manufacturing

SAP PM, RCM, TPM, PLC & CNC Programming, Project Management, Change Management

# Awards & Recognition

### Best Capstone Project Award                          *ISB*

Awarded for a successful deep learning PoC with an auto insurance startup                          *2019*

### CEO Circle Candidate                          *NEI LTD.*

Was recognized as Fast Track Employee in NEI Ltd.                          *2017*

### Star Employee Award                          *NEI LTD.*

Awarded for exhibiting extra-ordinary leadership skills at workplace                          *2016*