

OBJECTIVE	Data Scientist with 5 years of experience in developing and implementing data-driven solutions for business problems. Proficient in statistical analysis, machine learning algorithms, and data visualization tools . Skilled in programming languages such as Python and R and experienced in working with data analysis tools .
SKILLS & ABILITIES	Statistical Analysis, Machine Learning Algorithms, Data Visualization, Python, R programming, SQL, Big data technologies, Data cleaning and preprocessing, Deep learning algorithms, Natural Language Processing, RLDA, F&DT, Accelerated Testing
CERTIFICATIONS	<ul style="list-style-type: none">• Data Science Masters @ fingertips with JainX University, Mar 2023• Drive Leadership, Sept 2022• Drive Switch, Jun 2021• 7 Habits For Effective People, Dec 2020• Six Sigma Green Belt, Jan 2018
PROJECTS	<p>Test Failure Prediction: Developed predictive models using Softmax activation of neural network achieved 90.4% confidence to forecast future trends such as engine thermal shock test failure, by six sigma approach. Tech Stack: Tensor flow, Python, Excel, deep learning, Data Preprocessing</p> <p>Price Evolution: Improved overall decision-making of vendor product selection by 25% by designing and developing BI reports and providing invaluable insights on price evolution by using visualizing and analytical tools. Tech Stack: Power BI, Python, Data Preprocessing</p> <p>Load Predictor: Methodology to predict the load of any component based on the historical physical testing data. Using the random forest regression model got the 96.8% accuracy and performance on the data. Tech Stack: Excel, Python, Machine Learning, Data Mining</p> <p>Temperature Mapping: To predict the temperature profile on a muffler/catalytic converter based on the historical RLDA data. Using the MLP regressor artificial neural network model got the R2 score of 93.7%. Tech Stack: Excel, Python, Machine Learning, mySQL, Power BI, Data Preprocessing</p> <p>Damping Ratio Classifier: To classify the predominant Damping Ratio across different exhaust system configuration architecture based on the historical experimental damping ratios data patterns. Using the CART model got the 96.8% accuracy and performance on the data. Tech Stack: Excel, Python, Machine Learning, Data Visualization, PowerBI</p>

EXPERIENCE

DEPUTY MANAGER, FAURECIA, INDIA

April 2023- Present

- **Analyzed large datasets using statistical methods** to identify trends, patterns and provided insights to inform business decisions.
- Collaborated with cross-functional teams to understand business requirements and translate them into **data-driven** solutions.
- Conducted **data cleaning and preprocessing** to ensure data quality and consistency.

ASSISTANT MANAGER, FAURECIA, INDIA

October 2020- March 2023

Responsibilities includes, to guide and coach the team of 8 members to carryout time history road load **data processing**, fatigue life estimation, vibration profile development. Mentoring of new hires and assigning innovative projects for career trajectory.

Developed and led Hydrogen tank durability test data analysis technique under Zero Emission initiative.

SPECIALIST, FAURECIA, INDIA

June 2018- October 2020

Responsibilities includes, to conduct analysis of road load time history data, fatigue life estimation, block load development, engine order analysis, full system durability.

Accelerated Training and Polyvalence Improvement- Organized and lead 90+ trainings with a collaboration of internal/external stakeholders.

ENGINEER, FAURECIA, USA

July 2015- June 2018

Responsibilities included to plan and conduct ED shaker testing, PSD development, full system durability, plan and execute hydraulic testing of entire exhaust system, acquire time history road load data, block load development, specialized in guiding and carrying out of the fatigue analysis activities.

Road Load Data acquisition of time history data on transit van, SUV, and Crossover.

SME on CVE RLDA and PSD **database development** and automation\$ignal Conditioning/**Data Processing** of 50 RLDA data sets (~2TB).

ENGINEER, FAURECIA, INDIA

January 2013- July 2015

Responsibilities include to plan and conduct RLDA time history data processing, fatigue analysis of exhaust components, PSD development, SN curve development, Block Load development. Conduct RLDA workbook front loading. Supervise Engineering Special Project team. Supervise and coaches on technical report writing.

Developed a procedure for conducting uncertainty analysis. Development and improvement of processes for reduction and analysis.

PROJECT TRAINEE, HONEYWELL, INDIA

June 2011- March 2012

Responsibilities included for the parametric design and aerodynamic analysis of a turbocharger impeller.

Customization of Catia tool for parametric development of Auto-wheel.

Optimization to achieve the maximum total to static efficiency for different vane openings.

GRADUATE ENGINEER TRAINEE, SEIPL, INDIA

August 2008- November 2009

Responsibilities included for the designing, planning, execution, and handling over of HVAC projects

COMMUNICATION SAE, FLORIDA, USA

February 2016

Theoretical and experimental modal analysis correlation studies for closed coupled catalytic converter.

EDUCATION MIT, MANIPAL, INDIA

July 2012

Masters in mechanical design and Analysis

SDMCET, DHARWAD, INDIA

July 2008

Bachelors in mechanical engineering