

Garima Chauhan

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Github: <https://github.com/GarimaChauhan16/> Bio: <https://garimachauhan16.github.io/>

Education:

- **Northwestern University, Chicago, Illinois**
Data Science and Visualization
A 24-week certificate program focused on gaining technical skills in VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.
- **Indian Institute of Technology, Delhi**
Master of Technology
Design Engineering from the Department of Applied Mechanics
- **College of Technology, Pantnagar**
Bachelor of Technology
Mechanical Engineering

Skills:

FE Modelling: Hyperworks, Simlab

Solver: MSC Nastran, Abaqus, Ansys

Fatigue life prediction: FEMFAT, Fe-safe

Optimization: Optistruct

Additional Skills: VBA, Python, Pandas, Matplotlib, SQL, Tableau, HTML/CSS/JavaScript, Machine Learning,

Experience:

Mercedes Benz Research & Development India

2017-2019

Senior CAE Analyst

- Static (Linear/ non-linear) finite element stress analysis, leakage simulation for the transmission components.
- Fatigue Analysis, Life cycle calculation, damage calculation using test data loadcase.
- Created Load case document for the future analyses.

Escorts Ltd.

2014-2017

Manager- Engineering Services

- Static (Linear/ non-linear) finite element stress analysis, Frequency analysis for the tractor components.
- Cross functional collaboration with the testing team for the design validation and test correlation.
- Created Analysis guidelines and SOPs to improve the analysis processes.

Mahindra & Mahindra Ltd.

2012-2014

Deputy Manager- Tractor CAE

- Static (Linear/ non-linear) finite element stress analysis, Fatigue Analysis, Failure simulation, Life cycle calculation for the tractor components.
- Weight optimization using multi- constraint model.
- Created/ Modified Design verification plan for the future analyses.
- Created a design calculator in Excel for optimum component designs based on fatigue life requirement to reduce the **cost** and **time** of the design cycle.