

# Garima Chauhan

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

## Education:

- **Northwestern University, Chicago, Illinois**  
*Data Science Certificate*  
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, India**  
*Master of Technology*  
Design Engineering from the Department of Applied Mechanics
- **College of Technology Pantnagar, India**  
*Bachelor of Technology*  
Mechanical Engineering

## Skills:

**FE Modelling:** Hyperworks, Simlab, Hyperworks

**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. India**

**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. India**

**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.