Garima Chauhan

chauhangarima.786@gmail.com +91-9717719272/ +1-7086547858
LinkedIn: https://www.linkedin.com/in/garima-chauhan-83b27860/
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.