# **Garima Chauhan**

chauhangarima.786@gmail.com +1-7086547858 (Charlotte, NC) 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 Bootcamp

Indian Institute of Technology, Delhi, India

Master of Technology in Design Engineering from the Department of Applied Mechanics

College of Technology, Pantnagar, India

Bachelor of Technology in Mechanical Engineering

### Skills:

Languages: VBA, Python, R, SQL

Data Manipulation & Visualization: Pandas, Matplotlib, Tableau, HTML/CSS/JavaScript, D3, Plotly, Leaflet, Web

scraping, ETL

Machine Learning: scikit learn, tensorflow Database: mySQL, postgeSQL, mongoDB

Others: Flask, Git

## **Projects:**

- Pyber (https://github.com/GarimaChauhan16/Pyber): Data visualization using Pandas DataFrame and Matplotlib to showcase relationships between the key-variables for a ride sharing company.
- Weather Changes (https://github.com/GarimaChauhan16/WeatherPy): Summary statistics and visualizations created using Pandas, and Matplotlib for the data pulled from OpenWeatherMap API to analyze changes in weather with respect to distance from the equator.
- Chicago Housing Prices (https://github.com/GarimaChauhan16/Chicago-Housing-Prices): A multi linear regression model using scikit learn to predict housing prices in Chicago based on multiple factors.
- Belly Button Biodiversity (https://github.com/GarimaChauhan16/Plotly--Belly\_Button\_Biodiversity): Full-stack application(https://belly-button-biodiversity-g.herokuapp.com) to build an interactive dashboard exploring the Belly Button Biodiversity Dataset using Plotly.js, Flask and Heroku.
- CTA Ridership Visualization (https://github.com/GarimaChauhan16/CTA-Ridership-Visualization): Web Visualization Dashboard for CTA ridership data using HTML, D3, Javascript, Plotly and Leaflet, PostgreSQL and Flask App.

### **Experience:**

# Mercedes Benz Research & Development, India

2017-2019

Senior CAE Analyst

- Design Validation, Failure simulation, Test Data correlation, Life cycle calculation for the transmission components of Mercedes Benz and AMG cars.
- Suggested design modifications to improve the fatigue life of the components by 40%.
- Created Design guidelines and Standard operating procedure documentation which improved the analysis processes.
- Cross department collaboration with design and test teams to resolve open field issues.

#### Escorts Agri. Machinery, India

2014-2017

Manager- Engineering Services

- Design Validation, Failure simulation, Life cycle calculation for the tractor components.
- Collaborated with the testing team for the design validation and test correlation.
- Achieved 85% correlation of simulation results with the test data.
- Created new analysis guidelines for some of the tractor components which improved the analysis process and reduced physical test time by 30%.

### Mahindra & Mahindra Ltd., India

2012-2014

Deputy Manager- Tractor CAE

- Design Validation, Failure simulation, Life cycle calculation for the tractor components.
- Created load case documents for the test load conditions to improve the analysis process.
- Created design calculators for optimum component designs based on fatigue life requirement to reduce the cost and time of the design cycle by up to 35%.