



# Abhay Gupta



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## Education

B.Tech in Electronics Communication  
Engineering NIT PATNA | 2018 |  
GPA:8.24/10

Class XII  
SABIC Agra | 2013 | 91.4 %

Class X  
SABIC Agra | 2011 | 79 %

## Skills

Computational : Matlab, Excel

Programming : C, C++, Basics of  
Python

Framework: TensorFlow, Keras

Languages: English, Hindi

## Strengths

Innovative  
Improviser  
Fast Learner  
Mentor  
Hardworking

## Hobbies

Foosball  
Singing  
Badminton  
Video Games

## Objective

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills.

## About Myself

I am a talented, ambitious and hardworking individual, with broad skills and expertise in the field of data science and Machine learning.

## Courses Completed

- Machine Learning
- Advance Machine Learning
- Operating System
- Computer Architecture

## Work Experience

Y - Z Senior FEA Analyst - General Motors | Bangalore X Years

### Gears Analysis

- Gear modeling in GSAM software
- Micro geometry such as tip relief, lead taper etc are optimized
- Contact pattern and root bending stress are found
- LDP software used to find Peak to Peak transmission error
- Differential Ring gear modelled and analysed
- Drive/Coast & Max / Abuse cases are analysed
- Recommendations given to DRE to improve noise & contact pattern

y-z Student Intern - General Motors | Bangalore y Months

- Automation of Abaqus system modeling using VBA scripting
- Correlation of MASTA and Abaqus on simple shaft model for validating substructure method

## Research and Projects

- Nonlocal Effect on the Frequency Analysis of Carbon Nanotubes
- Matlab code for the area filling algorithm for 3d printing
- Epoxy photo elasticity experiment to find stress concentration factor
- Stress and strain analysis of Ice Screw using FEA
- Making a model to explain sensing application and working of cantilever beam
- Worked on different generative models
- Brain tumor detection and segmentation using machine learning tools
- Image captioning of a image using machine learning

## Expertise

- Machine Learning - Data Structure and Algorithms

## Awards & Achievements

- Secured AIR 171 in GATE(ECE) 2018 out of 1.5 lakh students appeared
- Secured 16k rank in JEE-MAINS
- Got selected for NTPC Executive-Traine post

## Extra Curricular Activities

- Participated in singing competition in College cultural fest
- Organized events in college tech fest